

Start badges See Page 4

No 5 December 1990 A Database Publication







THE HEROES IN A HALF SHELL" ARE COMING!



Amiga, Atari ST, Commodore 64, Spectrum, Amstrad and PC.



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News trade distribution: Comag, Telephone: 0895-444055.

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GOTO 6 The Games Gang **GOTO 13 Rom and Ram GOTO 17 Program Doctor** Safe Scientist **Final Front Ear GOTO 25 GOTO 30 Build a Database GOTO 43** Logo Lowdown **GOTO 50 How a Computer Works**

I m puzzled about building boots on the BBC B. First I enter:

*BUILD !BOOT

Then I type in the commands and press Escape.

But when I press Shift+Break it doesn't work. Please tell me how to do it.

> - Michael Carvers (11), Greenlaw, Scotland.

You're right so far. All you have to do now is type:

*0PT 4,3

The disc will then be ready to load using Shift+Break.

I have typed in the Witches' Brew program from the October issue. It is brilliant.

I have made an improvement to it. With a few extra lines it will also tell you how many people there are enough drinks for. Here are the changes:

31 LET TV=0 221 PRINT: PRINT "Enough for ;INT(TV/1.25)+FNr(2); "people" 222 LET TV=0 330 IF C=3 THEN LET TV=TV+0.5: PRINT"and some ";:60T0 370 341 TV=TV+T

The number of people is roughly proportional to the measures.

- Alex Waddell (10), Reading, Berks.

If you have any tips for other readers, send them in. And if you have any questions about your computer or software just ask us. We'll try to answer them on the Noticeboard.

Let us know what you want to see in future issues. And if we use your letter or ideas we'll send you a Let's Compute! baseball hat!

Send your letters to:



Let's Compute! Europa House, Adlington Park, Macclesfield SK10 4NP.

Remember to tell us your age.

I like trying the programs in Al's Gorithms.

Can you please tell me what gorithm means?

- Stuart Forsyth (9) Barnsley, Yorks

The headline Als Gorithms is a shortened version of Alans Algorithms. There's no such word as gorithm but an algorithm is the method used to solve a problem.

As well as being an ace cartoonist, Mike Goldberg is an expert on words. He told us that a gorithm is a gorilla with rhythm! He even proved

he was right by drawing one for us.







I ve tried to type some programs from the November issue into my Spectrum. But any lines that start with FOR won t go in. For example, in the Database program I can t enter:

40 FOR X=1 TO 255

Should these lines be different for a Spectrum or am I doing anything wrong?

- Ian Holdsworth (12), Newcastle-upon-Tyne

These lines are all correct. Make sure you use the key marked FOR and the one marked TO. If you type the letters to make either word it won't work. We'll be giving lots of hints and tips for typing in programs in the next issue of Let's Compute!

Send for your full set of badges . . .

The badge you received free on the cover of this issue is just one of the set of four shown here.

To get the whole set send two £1 coins to Let s Compute! Badge Offer, PO Box2, Ellesmere Port, South Wirrral L65 3EB.

AND HERE'S A SPECIAL OFFER FOR **LET'S COMPUTE CLUB MEMBERS**

Club members can get the badges for half price. Just quote your membership number and send one £1 coin when you order.

Remember to tell us your name and address!



Let's Compute! is terrific. Especially in the last issue when the ducks flew up in the air for Rom's food and Rom fell on the micro.

But the programs aren't suitable for my Tatung Einstein computer. Could you please publish conversions for it?

- Michael Seaton (9), Birmingham

May I congratulate you on publishing such a brilliant magazine. It's educational and at the same time fun.

Is it possible to include listings for the Atari 130XE so I and many other XE owners can join in the fun?

- Hazel Gornall, Leeds

We ve had lots of letters asking us to cover even more computers. We re looking at the possibility of giving programs for additional machines, but which ones should we do?

Let us know what YOU want to see in Let's Compute! We always try to do what you want.

I have just discovered Let's Compute! When I saw PC on the front I got excited. I have been looking for a mag which has programs and is for the PC.

Very good because you can use your own questions.

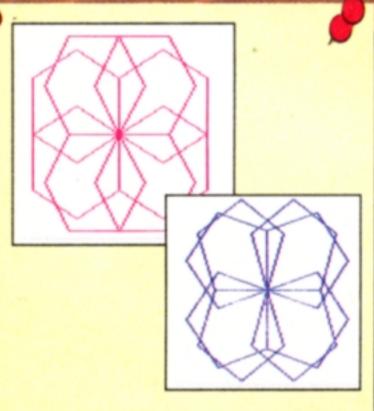
I like the cartoons and my favourite is Rom and Ram. The Games Gang are great.

- Daniel Byrd (11), Bath, Avon

HIGH SCORES!

Lot's of you have sent in the coupon from last month's noticeboard. There are loads of high scores on Page 39.

If you haven't sent your scores yet – or want to send us more – there's another coupon on the page. If you don't want to cut up your copy of *Let's Compute!* just copy it onto a piece of paper.



I am very pleased with Let's Compute! I am learning a lot from it.

I have drawn lots of patterns on my Electron using Logo. They use shapes like circles and hexagons.

The routines to do them are quite easy. For circles use:

REPEAT 360 [FD 5 LT 1]

For the hexagons use:

REPEAT 6 [FD 300 LT 60]

Mr Ken Weeks (70),
 Blackwood, Gwent.

What a great mag. Cartoons, compos and programs. I love it.

I own a Speccy +2 and have even joined the Let's Compute!

Just one slight niggle. There are no reviews.

Could you feature one or two please? Keep up the good work.

—Darren Randle (13), Gravesend, Kent

Lot's of people have asked for reviews so we'll be printing them soon. Let us know what you want us to look at.

RESULTS

We've so many contest winners to tell you about this month that there isn't room on the noticeboard. They're on Page 53.



I ve tried the Shooting Star program from the November issue on my school's BBC Micro. I had no problems and it worked well.

But I couldn't get it working on my Spectrum at home. Is there anything wrong in the Is this your computer? section?

-Jason Williams (14), Glasgow

The changes listed for Line 130 for all the computers should be made to Line 220 instead.

The main program was renumbered after the alterations needed were worked out.

Unfortunately, the new numbers were not copied on to the right places.

Also, the change listed for Line 220 in the C64 version should be made to Line 240 instead. Sorry!





Robocop 2 from Ocean a top seller this Christmas?

Licensed to sell

Lots of software has the name of a film, a famous person or something else that's a real crowd puller. The software houses have to pay the person who owns the name before they use it. It's called a licence.

Every December sees the big software companies getting ready to pull out their mega-selling licensed games for Christmas. And this year is no exception!

There are three hot hits from Ocean.

Robocop 2 is the sequel – you've guessed it – to Robocop. And watch out for **Special**Criminal Investigat-ion. It's the follow-up to the driving extravaganza Chase HQ.

There's also the conversion of Arnie Schwarzenegger's big summer film, **Total** Recall.

Superman from the now defunct Tynesoft was a brilliant game chests but oh so hard. **James Hallett** from Abergavenny has found a neat solution to level one anyway. When the first canon/ ship appears on screen switch to heat vision and start shooting it. When it is out of energy move down, still firing. As it disappears off screen keep going down and firing.

MORE YOU MUST NOT MISS

Top on US Gold's list are two really action-packed coin-op conversions. **UN Squadron** is a shoot-'em-up set right in the centre of the Middle East. And **Strider 2** features the original muscle-bound hero sporting the handy ability to transform himself into a robot.

Activision also have two major arcade conversions up their sleeves. **Atomic Robokid** is a cutesy shoot-'em-up, complete with secret rooms and metallic monsters.

If you want the chance to sample the ultimate experience of riding a lethal dragon straight into the enemy's den take a look at **Dragon Breed**.

You can get all these titles on all popular formats except PC, Archimedes and BBC.

Meanwhile from Mindscape there's **Days Of Thunder**. It's a

racing game based on Tom Cruise's exploits in the film of the same name.

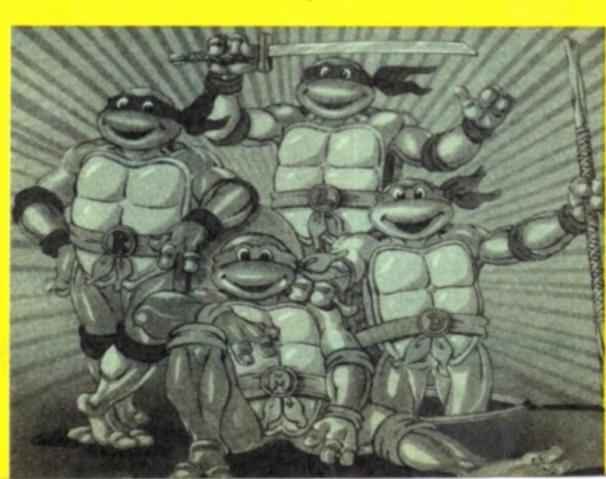
It should be on the shelves now on all formats except Amstrad, Archimedes and BBC.

Another film heart-throb waiting to make his way into your computer is Roger Moore. He's in Domark's **The Spy Who Loved**Me. It's for all computers except BBC and Archimedes and it's the best Bond game so far.

And there's one Yuletide release everybody is waiting for. In the October issue of Let's Compute! we told you that Imageworks' Teenage Mutant Ninja Turtles was on the way. It's now out and it's got to be the Christmas biggy.

You can get it on all formats except Archimedes, BBC and PC. But a PC version is available directly from the US.

Turtle
power...
they're
green and
they're
mean and
they're out
NOW!



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Alternative Xmas...

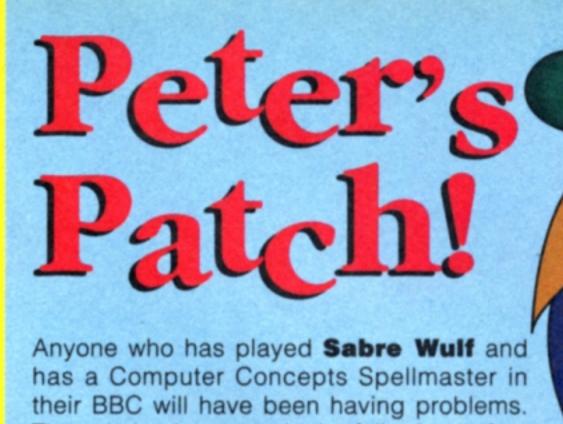
If you fancy something a bit different from the usual licence crop there are plenty of offerings to get your gnashers into.

There are far too many to mention them all here, but let's look at some of the best.

Keep a special lookout for two Lucasfilm titles. The quirky puzzler Night Shift comes on all formats except BBC and Archimedes. The hilarious adventure Secret Of Monkey **Island** is for the PC only.

Among the pick of the rest is Electronic Art's **Powermonger**. It's the staggeringly impressive sequel to Populous.

There's also Rainbird's medieval strategy game Betrayal and Millenium's James Pond. It's a cutesy underwater action romp for the Amiga and Atari ST.



The solution is to type in the following before you start to play:

!&210=!(!&FFB7+&10)

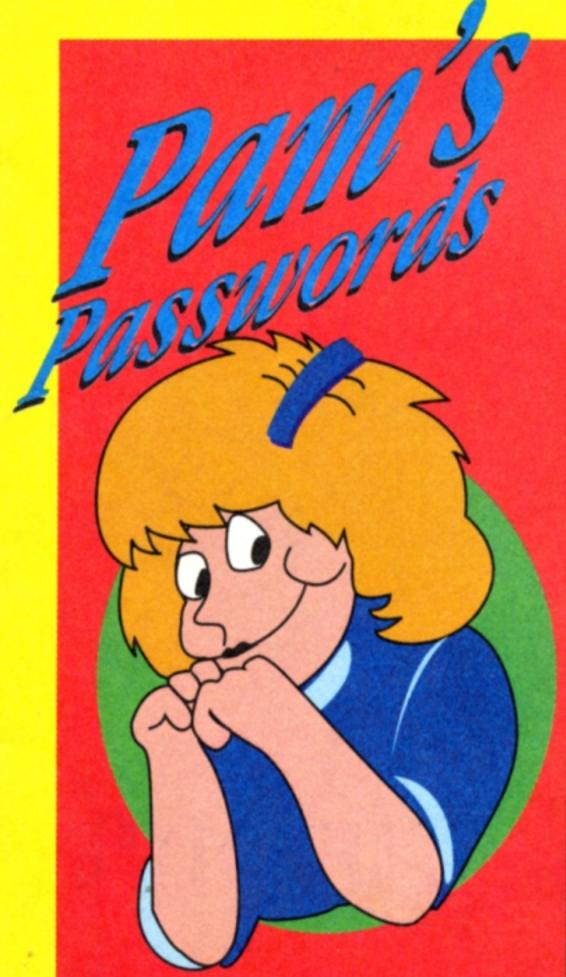
WATCH OUT, ACORN OWNERS!

Most of the major multi-format software houses seem to forget the humble Electron, BBC and Archimedes. But don't despair. There are still plenty of games for you around.

If you have a Master 128 or Archimedes with PC emulator you'll find that most games for the PC will work on your computer. Check the screen modes before you buy and make sure your machine can cope with them.

But to get the most from your micro stick with the software houses who write for those machines. Here are some look out for this Christmas:

Title	Company	Computer	What the game is	Comment
SimCity The Wimp Game TwinWorld	Superior Softeware 4th Dimension Cygnus	BBC/Electron Archimedes Archimedes	Run a city, coping with natural disasters and economic disaster Pointer-driven graphic adventure you can run while in other programs A superbly wicked arcade adventure	Brilliant. Mousemania Eat your heart out ST and Amiga owners



Struggling with Gremlin's Venus: The Flytrap? Well here's a list of the passwords to make life easier.

Level	Password
2	MANTIDS
3	CICADAS
4	PSYLLIDS
5	PIERIDS
6	SATYRID
7	LYCAENID
8	PYRALID
9	NOCTUI
10	no password

David Ward from Rushden has been working/playing very hard with Thundermonk. He has sent in the following:

Level	Password
1	no password
2	SPOOK
3	SHIVER
4	HALLOWEEN



IT'S THE SIMPSONS

Have you heard of the Simpsons? If you haven't yet you soon will. In America this grouchy cartoon family are even bigger than the Teenage Mutant Hero Turtles.

They're now starting to become trendy over here. Ocean have picked up the computer games licence so you should be able to sample Simpson humour first hand some time next summer.





Henrietta's Tree of Presents!

HOORAY!

£1,000 worth of software MUST be won!

Hopeless Henry and Henrietta are the two heroes in Scetlander's games - Hooray for Henrietta and Henrietta's Book of Spells. Now YOU can meet them.

We've 25 copies of both to give away. This is your chance to win a copy of each!

They're available for the IBM PC, Atari ST, Commodore Amiga and Spectrum.

Hooray for Henrietta has both Henry and Henrietta in a jam. John the parrot has kidnapped Henry, his coat, hat, boots and trousers.

All this is very upsetting for Henrietta as they are to be married in the morning. To rescue Henry she must solve some puzzles. Fail and Henry is covered in cold custard!

Henrietta's Book of Spells is where you will meet Cedric the Skeleton and the wicked Morgana the Morbid.

Henry is in trouble again. He bumped into Castle Spellalot so Morgana turned him into a frog. It's up to you to help Henrietta rescue him.

There are 25 sets of the two games to win.

All you have to do is to find the names of some people in the wordsquare on the entry form.

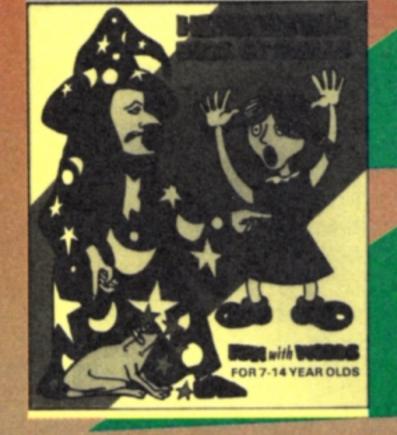
Here are the names: Cedric, Henry, John and Morgana. Just draw a circle round them.

Hurry! Only the first 25 correct entries will receive a prize. So make sure you fill in the entry form and send it to Let's Compute! before December 31 1990.













Entry form								
C	E	D	R	I	C	J	Please tick your choice:	Name
	R	_	-	$\overline{}$	-	_	☐ PC 3.5in disc ☐ PC 5.25in disc	Address
L	0	E	$\overline{}$	$\overline{}$			☐ Spectrum tape	
J	-	N	$\overline{}$	$\overline{}$	_		☐ Spectrum disc	
M	0	R	G	A	N	A	☐ Atari ST	
S	A	Y	В	E	S	T	☐ Amiga	PostcodeAge



French word.

capitals.

Make sure you enter the DATA lines exactly as they are printed. If

you make a mistake you could be learning the wrong spelling of a

Note that, as we've used lower case letters you should answer in

lower case. If, instead, you enter the listing in capitals, answer in

10 LET'S COMPUTE! December 1990

to Cam



What is the highest number you want?75 69 is the biggest

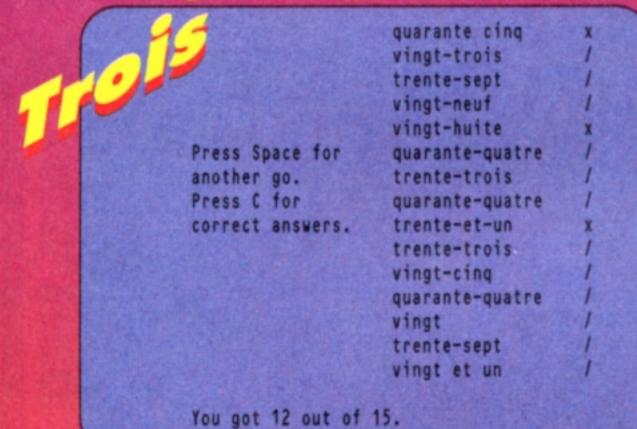
What is the highest number you want?45

What is the lowest number you want?56 Don't be silly!

What is the highest number you want?45

What is the lowest number you want?20

Choosing the size of your test



Checking your score

```
10 REM FRENCH NUMBERS
  20 REM (c) Let's Compute!
   30 DIM N(100):DIM W$(100)
   40 PRINT:LET X=RND(-TIME)
   50 LET S=0:LET S$=" "
   60 FOR I=1 TO 19:LET S$=S$+" ":NEXT I
  70 FOR I=1 TO 19:READ W$(I):NEXT I
   80 FOR I=20 TO 60 STEP 10
  90 READ AS:LET WS(I)=AS
  100 LET W$(I+1)=A$+" et un"
 110 FOR J=2 TO 9
  120 LET W$(I+J)=A$+"-"+W$(J)
 130 NEXT J:NEXT I
 140 CLS
 150 PRINT: INPUT "What is the highest n
umber you want";H
 160 IF H>69 THEN PRINT "69 is the bigg
est":GOTO 150
 170 PRINT: INPUT "What is the lowest nu
mber you want";L
 180 IF L=0 OR L>=H THEN PRINT "Don't b
e silly!":GOTO 150
 190 CLS
 200 FOR I=1 TO 15
 210 LET N(I)=RND(H-L+1)+L-1
```

260 INPUT RS 270 LET X=0:LET Y=19:LET T\$=\$\$+\$\$:GOSU B 430 280 IF R\$=W\$(QU) THEN LET S=S+1:LET M\$ ="/" 290 IF R\$<>W\$(QU) THEN LET M\$="x" 300 LET X=20:LET Y=Q+2:LET T\$=R\$:GOSUB 430 310 LET X=39:LET Y=Q+2:LET T\$=M\$:GOSUB 430 320 NEXT Q 330 LET X=0:LET Y=19:LET T\$="You got " +STR\$(S)+" out of 15.":GOSUB 430 340 LET X=0:LET Y=8:LET T\$="Press Spac e for": GOSUB 430 350 PRINT:PRINT "another go." 360 PRINT "Press C for"

370 PRINT "correct answers."

250 LET X=0:LET Y=19:LET T\$="What is F

```
quarante-deux /
vingt-cinq /
trente-trois /
trente-huit /
quarante-quatre /
quarante-et-un x
trente-neuf /
quatreante-trois x
trente-trois /
vingt-quatre /
quatrennte-cinq x
vingt /
quateante-cinq x
vingt /
quateante-cinq x
```

Answering the questions

```
43 quarante-trois
                   quatreante-trois
33 trente-trois
                   trente-trois
24 vingt-quatre
                   vingt-quatre
45 quarante-cinq
                   quatrennte-cinq
20 vingt
                   vingt
45 quarante-cinq
                   quateante-cinq
33 trente-trois
                   trente-trois
44 quarante-quatre quarante-quatre
45 quarante-cinq
                   quarante-cinq
35 trente-cinq
                   trente-cinq
24 vingt-quatre
                   vingt-quatre
                   vingt
20 vingt
43 quarante-trois quarante-trois
44 quarante-quatre quarante-quatre
34 trente-quatre
                   trente-trois
Press Space for another go.
```

Looking at the right answers
(Note: Spectrum display is slightly different)

```
400 IF A$<>" " THEN GOTO 380
  410 RUN
 420 REM ** PRINT SUBROUTINE **
  430 PRINTTAB(X,Y)TS;
  440 RETURN
  450 REM ** PRINT CORRECT ANSWERS **
 470 PRINT: PRINT S$: PRINT S$: PRINT S$:L
ET X=0:LET Y=3:LET T$="":GOSUB 430
  480 FOR Q=1 TO 15:PRINT STR$(N(Q));" "
; W$(N(Q)): NEXT Q
  490 PRINT:PRINT "Press Space for anoth
er go.":GOSUB 510
 500 RETURN
 510 LET AS=GETS
 520 RETURN
 530 DATA "un", "deux", "trois", "quatre",
"cinq", "six", "sept", "huit", "neuf", "dix"
 540 DATA "onze", "douze", "treize", "quat
orze", "quinze", "seize", "dix-sept"
 550 DATA "dix-huit", "dix-neuf", "vingt"
,"trente","quarante","cinquante"
  560 DATA "soixante"
```

IS THIS YOUR COMPUTER?

Electron/BBC/Archimedes

The program works as shown

Commodore 64/128

Enter the program in capitals. Change these lines:

140 PRINT CHR\$(147); 190 PRINT CHR\$(147); 210 LET N(I)=INT(RND(0)*(H-L+1)+L) 310 LET X=38:LET Y=Q+2:LET T\$=M\$:GOSUB 430 430 POKE 211,X:POKE 214,Y:SYS 58732:PR INT T\$; 510 GET A\$:IF A\$="" THEN 510

Spectrum

380 GOSUB 510

220 NEXT I

230 FOR Q=1 TO 15

rench for "+STR\$(QU):GOSUB 430

240 LET QU=N(Q)

Select 48k mode. Change these lines:

390 IF A\$="C" OR A\$="c" THEN GOSUB 450

30 DIM N(100): DIM W\$(100,16): DIM R\$
(16)
40 PRINT: RANDOMIZE
60 FOR I=1 TO 11:LET S\$=S\$+" ":NEXT I
210 LET N(I)=INT(RND*(H-L+1)+L)
300 LET X=14:LET Y=Q+2:LET T\$=R\$:GOSUB
430
310 LET X=31:LET Y=Q+2:LET T\$=M\$:GOSUB
430
430 PRINT AT Y,X;T\$;
510 LET A\$=INKEY\$:IF A\$="" THEN GOTO 5

PC (GW-Basic)/Amstrad CPC

Change these lines:

40 PRINT:RANDOMIZE TIMER
210 LET N(I)=INT(RND*(H-L+1)+L)
430 LOCATE Y+1,X+1:PRINT T\$;
510 LET A\$=INKEY\$:WHILE A\$="":L
ET A\$=INKEY\$:WEND

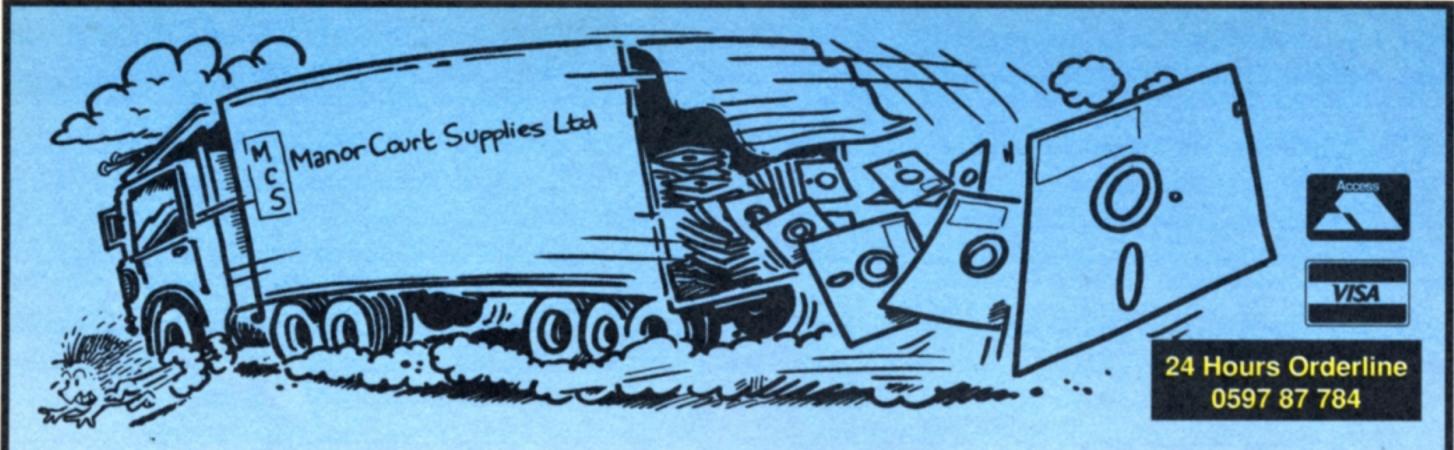
CPC: Use TIME instead of TIMER in Line 40.

Use X+1,Y+1 instead of Y+1,X+1 in Line 430

Amiga and Atari ST

Use Amos or Stos. Change these lines:

40 PRINT:LET X=RND(TIMER)
210 LET N(I)=RND(H-L)+L
430 LOCATE X,Y: PRINT T\$;
510 A\$=INPUT\$(1)



... for prices that appear to have fallen off the back of a lorry

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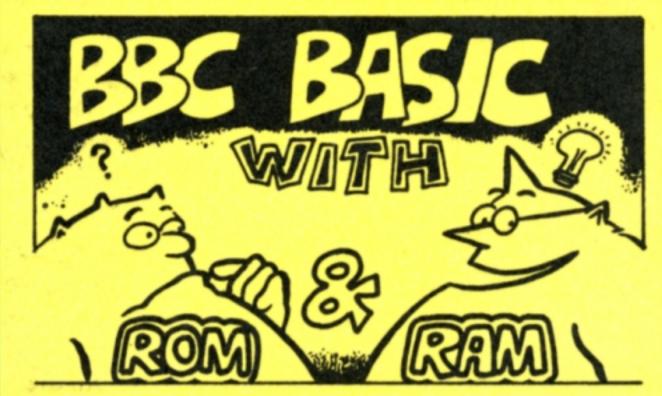
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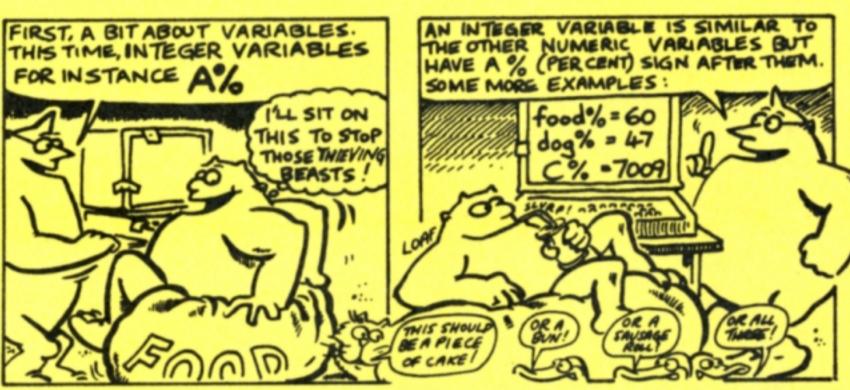
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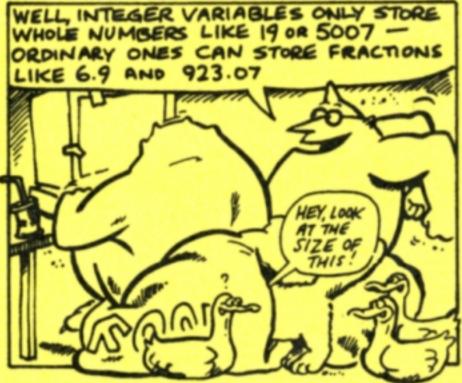


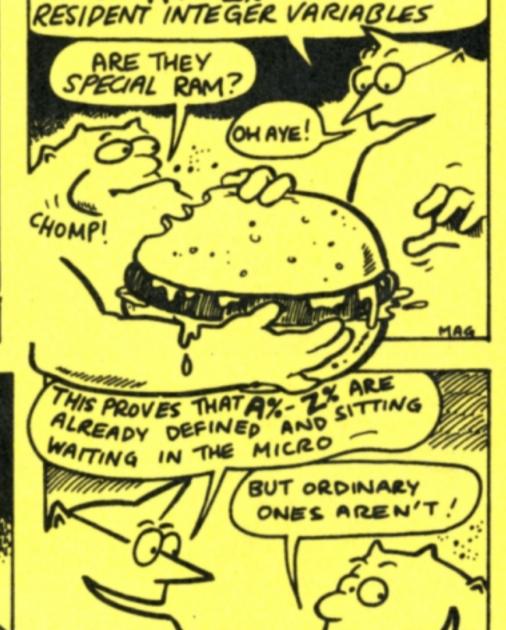












NOUIS A% - Z% WORK FASTER

THAN ANY OTHER NUMERIC VARIABLES

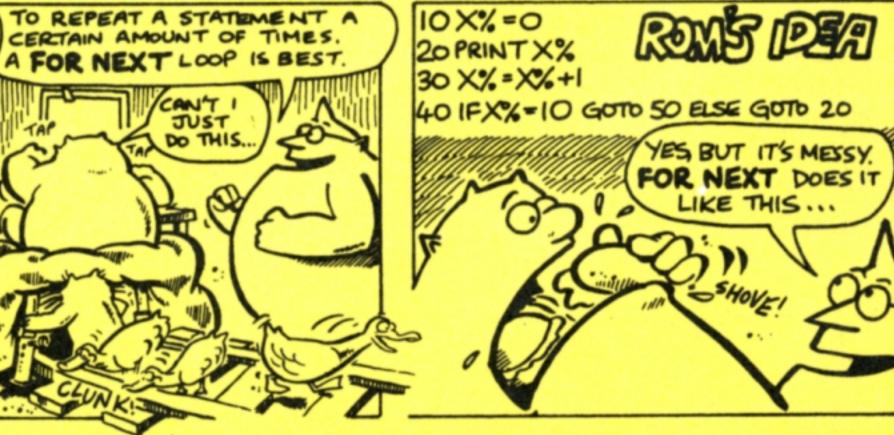
VARIABLES A% TO Z% ARE CALLED

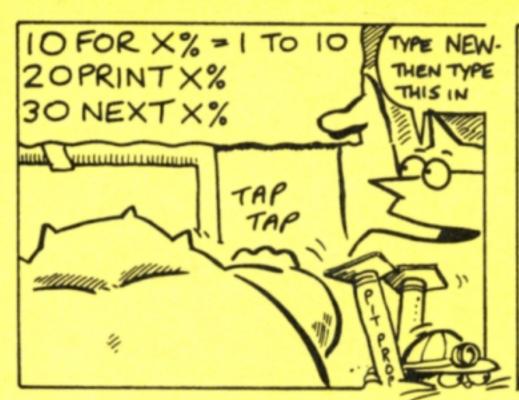


THESE VARIABLES HAVE MEMORY SPACE

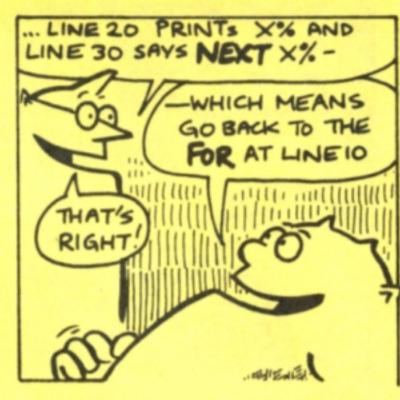


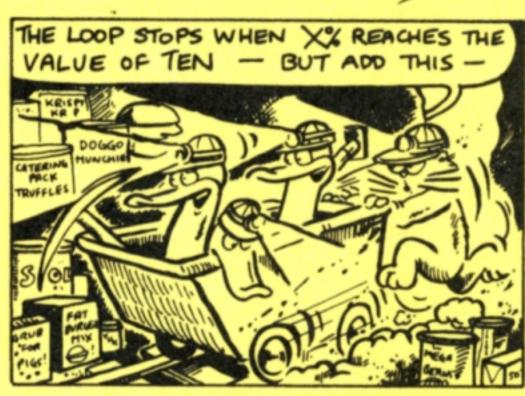


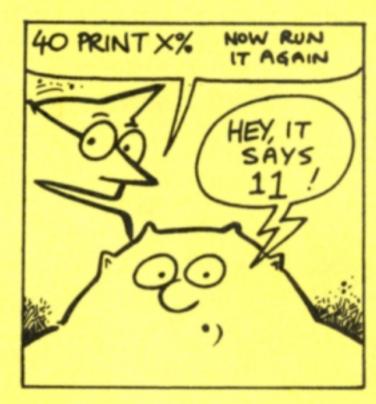






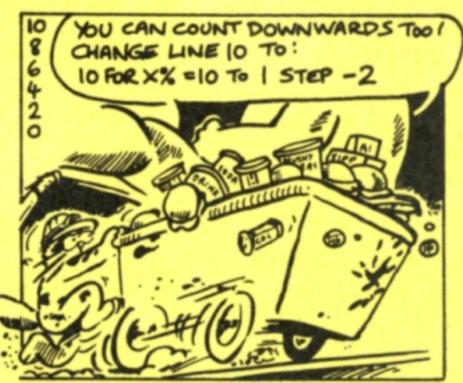


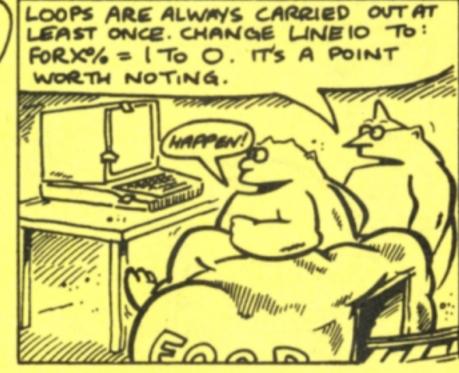








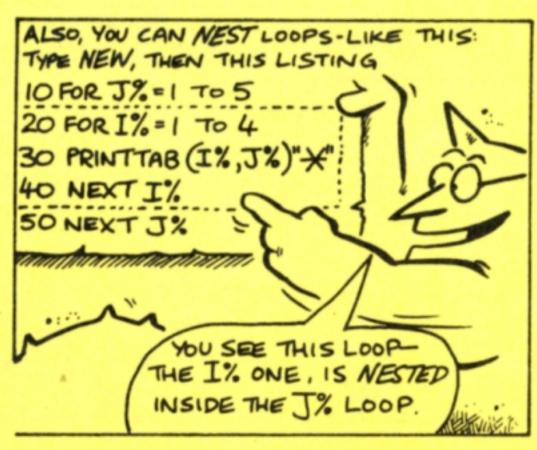














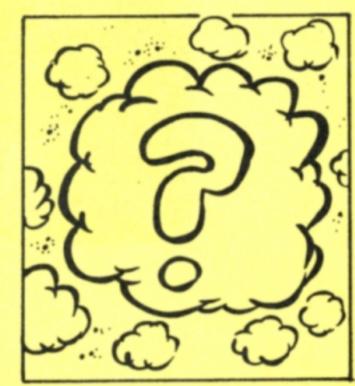


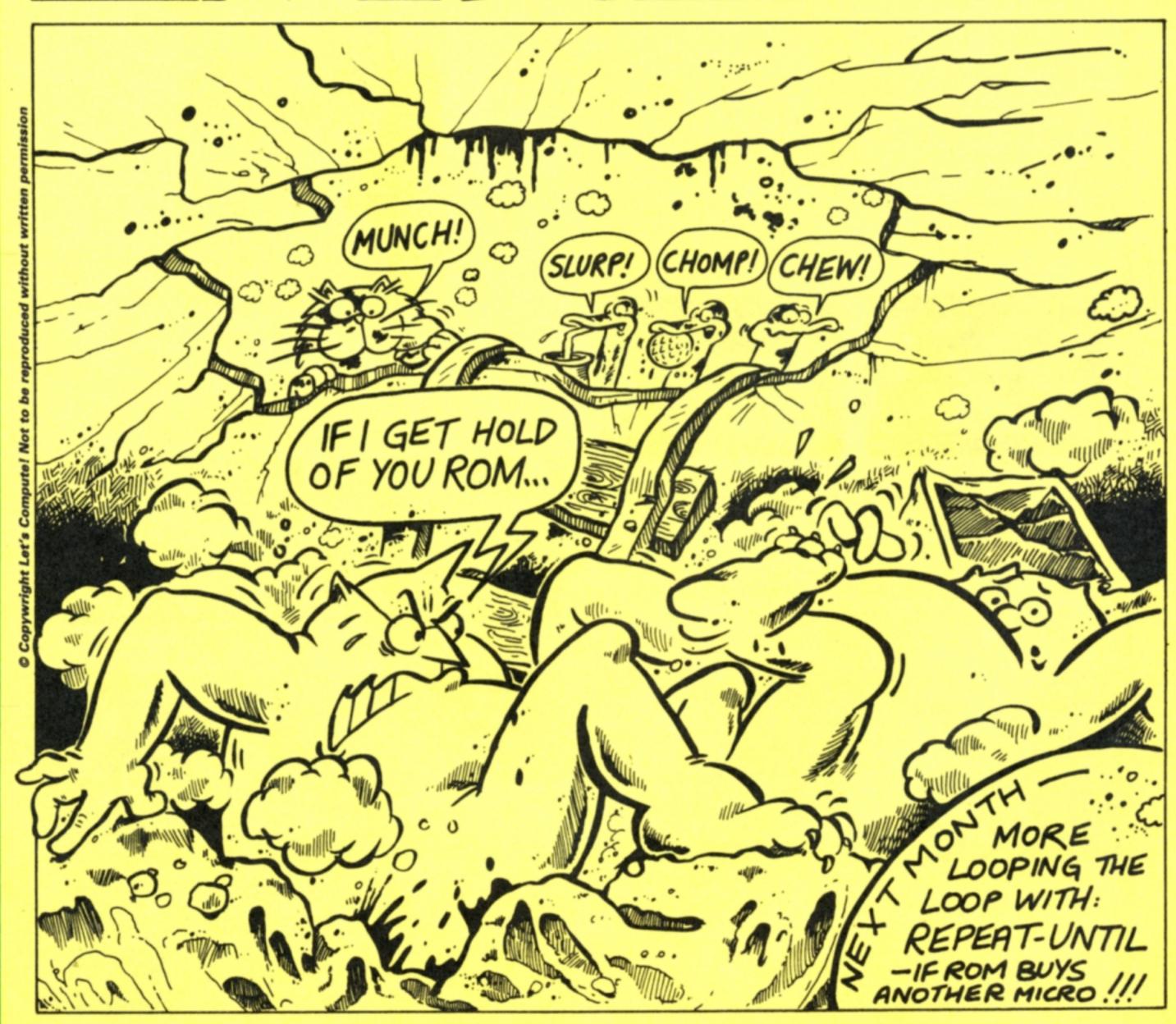














BLOWPIPE

Five levels of alien warfare lie before you – the most devilishly ingenious terra incognita you have ever faced awaits you, determined to question your genius and cause your downfall – can you keep ahead of this masterpiece of technical wizardry – conquer hitherto uncharted, undreamed of heights?

At the controls of the top specification ship, **The Annihilator**, you must establish a strategy to survive each level and collect as many credits as possible to use in the trading posts en route where you can equip your ship with even more powerful weaponry.

At the end of each stage, a fiendishly gruesome arch-guardian will try to check your progress through the portal to the next level – get it before it gets you and revel in your cunning.





Blowpipe is a masterpiece of Archimedes games' coding with over 2.5 megabytes of 256 colour graphics with up to 64 sprites on screen simultaneously. Over fifteen separate pieces of 4 channel stereo music with stunningly realistic sound effects heighten the excitement – explosive, mind-blowing, meteoric mega-action, all compressed onto just two discs.

WORLDSCAPE

Can you rectify world devastation? Worldscape affords you the opportunity to try, combining man's knowledge with your own ingenuity.

The fine balance of the planet Earth has been maintained by natural phenomena however catastrophic – volcanic eruption, earthquakes, tidal waves, plagues – but crucially, in the three hundred years since the Industrial Revolution, the human race has caused the global problems facing us today:

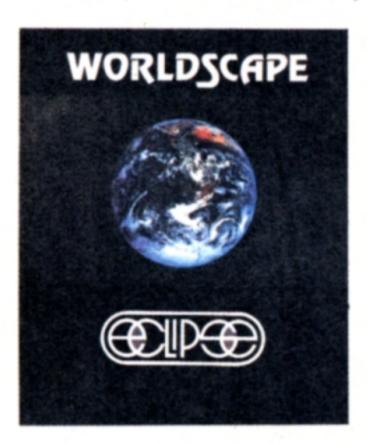
Atmospheric pollution caused by industrial gases
The hole in the ozone layer due to excessive use of
CFC's

The "greenhouse" effect brought about by thoughtless and ill-considered deforestation.

Unless we act NOW, our legacy to future generations will be irreversible.

Can you improve on present-day thinking? Worldscape gives you the opportunity to try – use its built-in landscape generator to create totally unique landscapes – build cities, erect power stations, deal with sewage, plant your own forests – these and countless other options are available to you.

Remember you hold the advantage over scientists in the real world – you can correct your errors – mankind rarely can.



Complete on two discs with an accompanying comprehensive manual, Worldscape challenges you to change the world.

Your ultimate goal – world peace and harmony –

perfection with Worldscape







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It's never a good idea to jump out of loops. But lots of people do! Our tame micro medic tells of other ways.

This is the original program: 10 CLS 20 PRINT "TYPE THE ALPAHBET NOW!" 30 FOR I = 1 TO 26 40 GOSUB 160 50 PRINT KS; IF K\$<>CHR\$(1+64) THEN GOTO100 PRINT:PRINT:PRINT "WELL DONE" GOTO 110 100 PRINT: PRINT: PRINT "YOU GOT IT WRONG" 110 PRINT: PRINT "DO YOU WANT ANOTH ER 60?" 120 GOSUB 160 130 IF K\$="Y" THEN GOTO 10 150 END: REM ON SPECTRUM USE STOP 160 INPUT K\$ 170 RETURN Here are Doc's changes:

25 LET F=0 60 IF K\$<>CHR\$(I+64) THEN LET F=1 :LET I=26 75 IF F=1 THEN GOTO 100 all home

micros

This

program

works on

Here's another program that fell on to Doc's operating table. It's a simple game that tests how well you know the alphabet.

Type it in and try it. It appears to work OK. But it has several faults.

For example, after asking if you want Another Go? it only checks whether you press Y. But what if a different key is pressed? Doc showed the answer to that one in our October issue.

What worries Doc most is the jump out of the loop. The loop is from Line 30 to Line 70. If you press a wrong key the program jumps to Line 100.

This works when you first run the program. But on most computers you'll soon get an error message if you keep typing the wrong letter.

On the BBC Micro, after you've made about 20 mistakes, you'll get this message:

Too many FORs at line 30.

But whether you get an error message or not, it's still bad programming! So how do you cure it? There are lots of ways.

Doc has found four.

The changes you need to make depend on the Basic language that is in your computer. Two of Doc's cures will work on all computers but the others will only work on

ones that understand the new commands he uses.

Doc's first remedy is to change the GOTO 100 in Line 60 to LET I=26. This means that when the loop reaches the NEXT I it has reached the highest value of I and it leaves the loop without the jump.

But now the program doesn't know whether to print a won or lost message. To get round this Doc uses what is known by programmers as a flag.

In Line 25 he sets his flag to 0. Then, in Line 60, it is changed to 1 if a mistake is made as a letter is typed.

So at Line 75, if the flag has been changed from 0 to 1, the program knows it has to jump to line 100. The other three methods also use the flag.

Next month Doc will look at three other ways to solve this problem. They are REPEAT...UNTIL, WHILE...WEND and Doc's own repeat.

But in the meantime, the main point to remember is that you should NEVER jump out of a loop.

Do you think YOU have written a program that can't be improved? Then send it along to the Program Doctor. He loves a challenge!

Electron/BBC Micro/Archimedes core

```
10 REM AL'S GORITHMS ... ELLIPSES
 20 REM (c) LET'S COMPUTE!
 30 MODE 1
40 GCOL0,129
 50 CLS
 60 PRINT: PRINT "JUST A MO, CALCULATIN
 70 REM LOOK-UP TABLE
 80 DIM T(72,2)
90 FOR I=0 TO 72
100 LET T(1,1)=COS (RAD (1*5))
110 LET T(I,2)=SIN (RAD (I*5))
```

```
120 PRINT TAB(5,5) I
130 NEXT I
140 CLG
150 FOR P=0 TO 27
160 READ M1, M2, IC, XC, YC, CL
170 GOSUB 200: REM DRAW ELLIPSE
180 NEXT P
190 GOTO 190
200 REM ELLIPSE ROUTINE
220 GCOL Ø,CL
230 MOVE XC, YC
240 DRAW XC+M1*T(IC/5,1),YC+M1*T(IC/5,
```

```
250 FOR A=0 TO 360 STEP 15
260 MOVE XC, YC
270 LET X=M1*T(A/5,1)
280 LET Y=M2*T(A/5,2)
290 LET XT=X*T(IC/5,1)-Y*T(IC/5,2)+XC
300 LET YT=X*T(IC/5,2)+Y*T(IC/5,1)+YC
310 PLOT 85, XT, YT
320 NEXT A
330 RETURN
```

PROGRAMMING NOTE!

This program uses SIN and COS in a lot of calculations.

To save your computer working them out each time an ellipse is drawn, they are all calculated at once in Lines 70 to 130.

The results are saved in all the

memory locations called T. Then the answer can be looked up whenever it is needed.

This is a common method of speeding up programs.

It's called using a look-up table.

Amstrad CPC core

```
10 REM AL'S GORITHMS ... ELLIPSES
                                               190 GOTO 190
 20 REM (c) LET'S COMPUTE!
                                               200 REM ELLIPSE ROUTINE
 30 MODE 1
                                              210 PLOT -5,-5,CL
 35 INK Ø, Ø: INK 1,6: INK 2,24: INK 3,26
                                               220 LET S=1+500\(M1+M2)
 40 PAPER 1:PEN 0
                                              230 LET XC=XC/2:LET YC=YC*5/12:LET IC=
 50 CLS
                                             IC*2
 60 PRINT: PRINT "JUST A MO, CALCULATIN
                                              235 LET XCØ=M1+T(IC,1)/2:LET YCØ=M1*T(
                                            IC,2)*5/12
 70 REM LOOK-UP TABLE
                                              240 LET XC1=XC+XC0:LET YC1=YC+YC0
 80 DIM T(750,2):DEG
                                              245 LET XC2=XC-XC0:LET YC2=YC-YC0
                                              250 FOR A=0 TO 360 STEP S
 90 FOR I=0 TO 750
100 LET T(I,1)=COS (I/2)
                                              260 MOVE XC, YC
110 LET T(I,2)=SIN (I/2)
                                              270 LET X=M1*T(A,1)
120 LOCATE 5,5:PRINT I
                                              280 LET Y=M2*T(A,2)
130 NEXT I
                                              290 LET XT=(X*T(IC,1)-Y*T(IC,2))/2+XC
140 CLS
                                              300 LET YT=(X*T(IC,2)+Y*T(IC,1))*5/12+
150 FOR P=0 TO 27
                                            YC
160 READ M1, M2, IC, XC, YC, CL
                                              310 DRAW XT, YT: DRAW XC2, YC2
170 GOSUB 200: REM DRAW ELLIPSE
                                              320 NEXT A
180 NEXT P
                                              330 RETURN
```

ST(Stos)/Amiga (Amos) Core

```
10 REM AL'S GORITHMS ... ELLIPSES
   20 REM (c) LET'S COMPUTE!
   30 KEY OFF: MODE Ø: HIDE ON: CURS OFF
   40 PALETTE $0,$700,$700,$777
   50 REM
   60 PRINT: PRINT "JUST A MO, CALCULATIN
G...."
   70 REM LOOK-UP TABLE
  80 DIM T#(72,2)
  90 FOR I=0 TO 72
 100 LET T#(I,1)=COS (RAD (I*5))
 110 LET T#(I,2)=SIN (RAD (I*5))
 120 LOCATE 5,5:PRINT I
 130 NEXT I
 140 INK 3:BAR 0,0 TO 319,199
 150 FOR P=0 TO 27
 160 READ M1, M2, IC, XC, YC, CL
 170 GOSUB 170: REM DRAW ELLIPSE
 180 NEXT P
 190 GOTO 160
 200 REM ELLIPSE ROUTINE
 210 INK CL
 220 LET XC=XC/4:LET YC#YC/5:LET M1=M1/
```

```
4:LET M2=M2/5:LET OXT#=XC+M1*T#(I/5,1):L
ET 0YT#=YC+M1*T#(I/5,2)
  230 LET XC=320-XC:YC=200-YC
  240 LET 0XT#=320-0XT#:0YT#=200-0YT#
  250 FOR A=0 TO 360 STEP 15
  260 LET X#=M1*T#(A/5,1)
  270 LET Y#=M2*T#(A/5,2)
  280 LET XT#=X#*T#(IC/5,1)-Y#*T#(IC/5,2
)+XC
  290 LET YT#=X#*T#(IC/5,2)+Y#*T#(IC/5,1
 300 POLYGON XC, YC TO OXT#, OYT# TO XT#,
YT#
 310 LET 0XT#=XT#:0YT#=YT#
 320 NEXT A
 330 RETURN
```

Amos users: Replace Line 30 with:

30 SCREEN OPEN 0,320,,,200,16,LOWRES:HI DE:CURS OFF

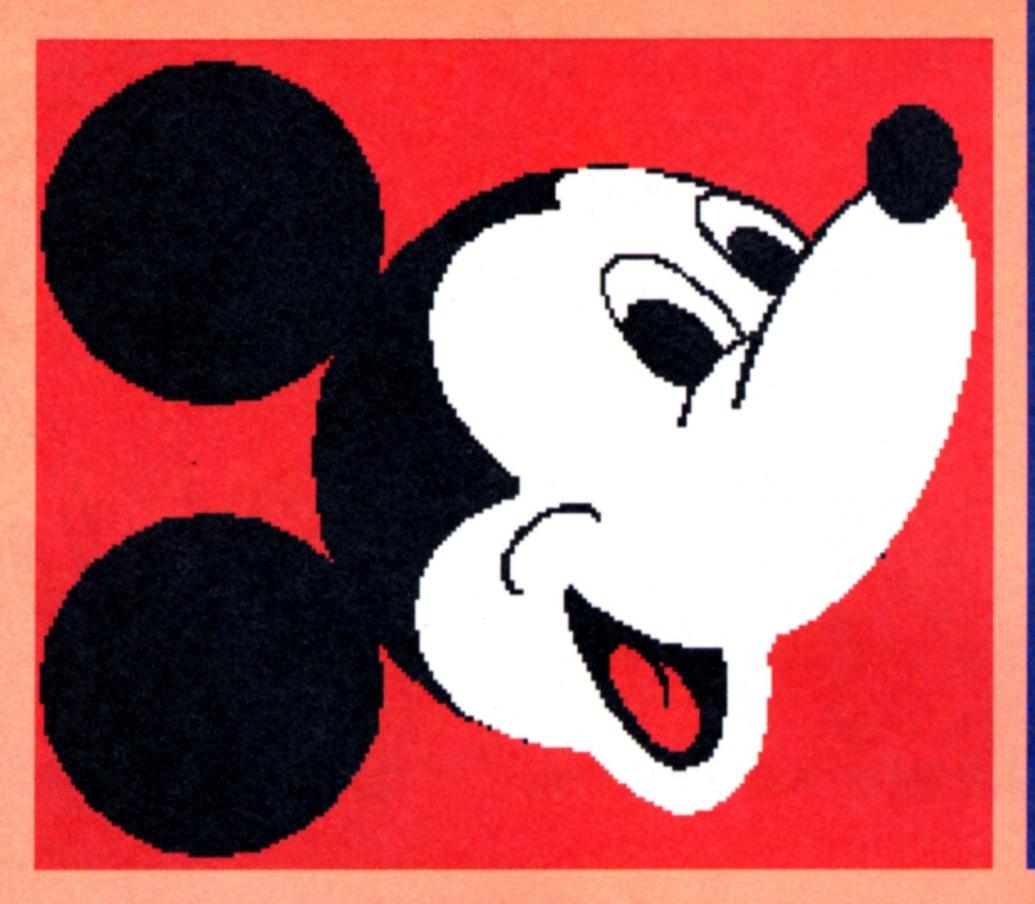
Spectrum core

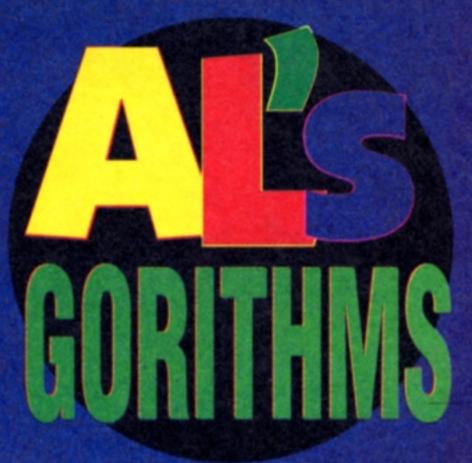
```
10 REM AL'S GORITHMS ... ELLIPSES
   20 REM (c) LET'S COMPUTE!
   30 PAPER 7
   40 INK 0
   60 PRINT: PRINT "JUST A MO, CALCULATIN
G...."
   70 REM LOOK-UP TABLE
   80 DIM T(750,2)
  90 FOR I=1 TO 750
  100 LET T(I,1)=COS (I*PI/360)
  110 LET T(1,2)=SIN (1*PI/360)
 120 PRINT AT 1,0; I
  130 NEXT I
  135 FOR I=Ø TO 6 STEP 2: POKE USR "A"+
I,BIN 01010101: POKE USR "A"+I+1,BIN 101
01010: NEXT I
  140 FOR I=0 TO 21: PRINT AT I,0;"
        ";:NEXT I
  150 FOR P=0 TO 27
  160 READ M1, M2, IC, XC, YC, CL
  170 GOSUB 200: REM DRAW ELLIPSE
  180 NEXT P
  190 GOTO 190
  200 REM ELLIPSE ROUTINE
 210 INVERSE 1: IF CL=0 THEN INVERSE 0
 220 LET S=1+500/(M1+M2)
 230 LET M1=M1/6: LET M2=M2/6: LETXC=XC
/6: LET YC=YC/6: LET IC=IC*2+1
 235 LET XC0=M1+T(IC,1): LET YC0=M1*T(I
(2,2)
 240 LET XC1=XC+XC0:LET YC1=YC+YC0
 250 FOR A=1 TO 721 STEP S
 260 PLOT XC1, YC1
 270 LET X=M1*T(A,1)
 280 LET Y=M2*T(A,2)
 290 LET XT=(X*T(IC,1)-Y*T(IC,2))
 300 LET YT=(X*T(IC,2)+Y*T(IC,1))
 310 DRAW XT-XCO, YT-YCO
 315 DRAW -XT-XCØ,-YT-YCØ
 320 NEXT A
 330 RETURN
```

NOTE: Line 140 contains 32 graphic characters. To use one, go into graphics mode and type the letter A.

To get into graphics mode press the key labled GRAPH or press Caps Shift and 9. The cursor will then appear as Press the same key to leave graphics mode.

Until you RUN the program the character will show as A. Once it has been run it will look like it is in the listing above.





THIS IS IT! The page where the budding artists among you can pick up a tip or two. And a chance for you to show what YOU can do yourself.

Making a lot with a few lines of code is what it's all about. Alan McLachlan gives you some more bright ideas.

SQUASHING THE CIRCLES

Two issues ago we created some great pictures from circles. But squash the circles – some just a little bit and some a lot – and you've got lots more shapes to draw with.

So this month we're going to make even better pictures from ellipses – a fancy name for flattened circles. We'll show you how you can draw an ellipse of any size and shape. And to add even more fun you can also tilt it about its centre.

So the listing is a little more complex than before. It has to work out how much to squash the ellipse and how much to tilt it. But you don't need to know how it works to draw your own pictures. Just change the 27 in Line 150 to the number of ellipses you want to draw.

Then put the numbers that the program needs to draw the ellipses in DATA lines starting at Line 340. Each ellipse needs six numbers. You'll see them in each of the DATA lines opposite. They have to be entered in this order:

First
Second
Third
Fourth
Fifth
Sixth

Measures the distance across one way
Measures the distance across the other
Gives the angle of tilt (0 to 180)
Gives the X location of the centre
Gives the Y location of the centre
Gives the colour

When you've keyed in the main core of the program you're ready to draw your own pictures.

But before you do so let your computer draw the Micky Mouse shown above.

To do this, enter these DATA lines:

480 DATA180,100,110,680,360,3
490 DATA 140,60,110,680,360,0
500 DATA140,100,140,700,450,3
510 DATA 60,30,50,760,560,0
520 DATA 60,30,50,764,554,3
530 DATA 200,90,70,860,560,0
540 DATA 200,90,70,866,554,3
550 DATA 80,60,90,760,460,3
560 DATA 50,40,90,920,760,0
570 DATA 40,25,120,700,280,1
580 DATA 30,20,120,680,300,0
590 DATA 36,18,120,676,300,1
600 DATA 50,30,40,600,420,0
610 DATA 44,28,40,604,416,3

When you RUN it you'll find that the result is quite impressive.

But can you come up with something better?
The challenge is there!

Send us your masterpiece drawn using just ellipses and let everyone see it!



Everyone (yes, EVERYONE) saves money buying presents at the Computer Shopper Show!

An exit poll conducted at last year's Computer Shopper Show revealed that 95 per cent of customers reported "substantial savings" from purchases with individual figures ranging from £50 to more than £1,000!

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10am-6pm

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OR SAVE £4 off the price of a family ticket (two adults and two children)



Only one discount per person is allowable

SAVE!







This voucher is worth 50p per person off the admission price to Computer Shopper '90

Only valid Saturday or Sunday December 8 or 9.

OR SAVE £3 off the price of a family ticket (two adults and two children)





10 REM HEALTHY LIFE STYLE 20 REM By The Safe Scientist 30 DIM S(3) 40 MODE 3: VDU19, 0, 4;0; 50 FOR N=23 TO 1 STEP-1 60 LET X=32:LET Y=N:GOSUB 400:PRINT " HEALTHY LIFESTYLE" 70 LET Y=N+1:GOSUB 400:PRINT " ": REM 16 SPACES 80 LET T=10:GOSUB 420 90 NEXT N 100 LET SC=0 110 READ QS:IF QS<>"end" THEN GOSUB 16 Ø:GOTO 110 120 GOSUB300 130 PRINT: PRINT" PRESS SPACE TO TRY AGA IN." 140 GOSUB 440: IF AS<>" " THEN GOTO 140 150 RUN 160 REM QUESTION 170 PRINT: PRINT Q\$ 180 FORN=1 TO 3: READ A\$, S(N) 190 PRINT:PRINT N;" ";AS 200 NEXT N 210 PRINT 220 INPUT "Which choice"; C: IF C<1 OR C

230 LET SC=SC+S(C) 240 PRINT:PRINT"You scored ";S(C);" fo r that." 250 READ MS:PRINT:PRINT MS 260 PRINT: PRINT "PRESS SPACE" 270 GOSUB 440:IF A\$<>" " THEN GOTO 270 280 CLS 290 RETURN 300 REM SCORE 310 CLS 320 PRINT "You have scored ";SC 330 PRINT: PRINT 340 IF SC=20 THEN PRINT "Perfect! What a healthy little soul you are!":RETURN 350 IF SC>15 THEN PRINT "Pretty good! You know what's good for you.": RETURN 360 IF SC>10 THEN PRINT "Not bad, but some aspects could be healthier.": RETURN 370 IF SC>5 THEN PRINT "Do more to mak e sure you stay healthy.":RETURN 380 IF SC>1 THEN PRINT "Help! You need it if you value good health.": RETURN 390 PRINT "Check your pulse! With your lifestyle you're struggling.":RETURN 400 REM TAB(X,Y)

>3 THEN GOTO 220

410 PRINT TAB(X,Y);: RETURN 420 REM DELAY 430 TIME=0:REPEAT UNTIL TIME>T:RETURN 440 REM GET 450 LET AS=GETS:RETURN 460 DATA "It is 7.15 on a Friday morni ng. Your alarm has just sounded." 470 DATA "Get up, wash and clean your teeth.",2 480 DATA "Turn the alarm off and go ba ck to sleep.",0 490 DATA "Get up but be in a really bad temper.",1 500 DATA "Keeping clean is important. So is learning to rely on yourself." 510 DATA "It is now 7.45 and you are t hinking about breakfast." 520 DATA "Skip breakfast because you h aven't time.",0 530 DATA "Tuck into bacon and eggs wit h fried bread.",1 540 DATA "Have a bowl of cereal and fr uit juice.",2 550 DATA "It is most important to star t the day with a well balanced meal." 560 DATA "Twenty to nine and you are n



IS THIS YOUR COMPUTER?

Electron/BBC/Archimedes

The program works as shown.

Commodore 64/128

Enter the program in capitals. Change the following lines:

40 PRINT CHR\$(147);
60 LET X=10:LET Y=N:GOSUB 400:PRINT "
HEALTHY LIFESTYLE"
280 PRINT CHR\$(147);
310 PRINT CHR\$(147);
410 POKE 211,X:POKE 214,Y:SYS 58732:RE
TURN
430 LET T=TIME+T*3
435 IF T>TIME THEN 435
436 RETURN
450 LET GET A\$:IF A\$="" THEN 450
455 RETURN

Spectrum

40 CLS

Change or add the following lines:

50 FOR N=20 TO 1 STEP-1
60 LET X=8:LET Y=N:GOSUB 400:PRINT "H
EALTHY LIFESTYLE"
410 PRINT AT Y,X;:RETURN
425 LET T=PEEK(23672)+T/2:IF T>255 THE
N LET T=T-256
430 IF PEEK(23672)<>T THEN GOTO 430

450 LET AS=INKEYS:IF AS="" THEN GO TO

455 RETURN

PC (GW-Basic)

Change the following lines:

40 CLS
410 LOCATE Y,X:RETURN
430 LET T=TIMER+T/8:WHILE T>TIMER:WEND
:RETURN
450 LET A\$=INKEY\$:WHILE A\$="":LET A\$=I
NKEY\$:WEND:RETURN

Atari ST (Stos)

Change the following lines:

40 MODE 1:KEY OFF:CURS OFF:HIDE
50 FOR N=21 TO 1 STEP-1
410 LOCATE X+1,Y+1:RETURN
430 LET T=TIMER+T*3:WHILE T>TIMER:WEND
RETURN
450 LET AS=INPUTS(1):RETURN

Amiga (Amos)

Change the following lines:

40 CLS
50 FOR N=21 TO 1 STEP-1
410 LOCATE X+1,Y+1:RETURN
430 LET T=TIMER+T*3:WHILE T>TIMER:WEND
:RETURN
450 LET A\$=INPUT\$(1):RETURN

Amstrad CPC

Change the following lines:

40 MODE 2
410 LOCATE X+1,Y+1:RETURN
430 LET T=TIME+T*3:WHILE T>TIME:WEND:R
ETURN
450 LET A\$=INKEY\$:WHILE A\$="":LET A\$=I

Health in the National Curriculum

You need know something about diet and a healthy life style.

You are also expected to know that some things, like tobacco, really are bad for you.

ow at school."

570 DATA "Tuck into a Mars bar you bou ght on the way to school.",1

580 DATA "Nip round the back of the bike shed for a quick fag.",0

590 DATA "Play a game of tennis with y our mates.",2

600 DATA "It's not a bad idea to get s ome FRESH air and exercise."

610 DATA "At last! It's morning break time."

620 DATA "Race to the tuck shop for so

me bags of crisps.",0
630 DATA "Nip into the toilets to brus

h your hair and have a chat.",1 640 DATA "Play a game of tennis with y our mates.",2

650 DATA "Better to avoid greasy, salt y tuck. Exercise is much more useful." 660 DATA "It's the dreaded double math

s lesson."
670 DATA "Quietly eat the Polo mints y

ou bought earlier.",1
680 DATA "Just get on quietly with the problems you've been set.",2

690 DATA "Claim to feel ill so that yo

u can escape to the medical room.",0
700 DATA "You'll feel much better if y
ou stick to your set tasks."
710 DATA "Hurrah! It's lunchtime."

710 DATA "Hurrah! It's lunchtime."
720 DATA "Eat the balanced 'meal of the day'.",2

730 DATA "Tuck into hot dog and chips.

740 DATA "Skip dinner so you can keep the money you were given.",0

750 DATA "Once again, the well balance d meal is best."

760 DATA "It's games this afternoon."
770 DATA "Take a full and active part in the game.",2

780 DATA "Forge a note from your mum to say you are ill.",1

790 DATA "Skip off and hide in the toi

lets.",0 800 DATA "You may or may not enjoy it

but the exercise is good for you."
810 DATA "School has ended. You are no
w back at home thinking about tea."

820 DATA "Scoff a couple of chocolate bars and a bag of crisps.",1 830 DATA "Eat a tuna fish salad.",2 840 DATA "Don't bother with tea becaus e you're watching Neighbours.",0

850 DATA "You need that well balanced meal again."

860 DATA "After tea. What a range of a ctivities are possible."

870 DATA "Go to the park to play with your mates.",2

880 DATA "Flop in front of the telly f or the evening.",0

890 DATA "Sit in your room doing your homework.",1

900 DATA "Get the fresh air and exerci se but make sure homework is done."

910 DATA "Your parents tell you it is time for bed."

920 DATA "Settle down because you know your bed time is sensible.",2

930 DATA "Pretend to settle down but g et up later to see the horror movie.",0 940 DATA "Ask Dad about dinosaurs' int estines to hang out bed time.",1

950 DATA "You really need your sleep." 960 DATA "end"

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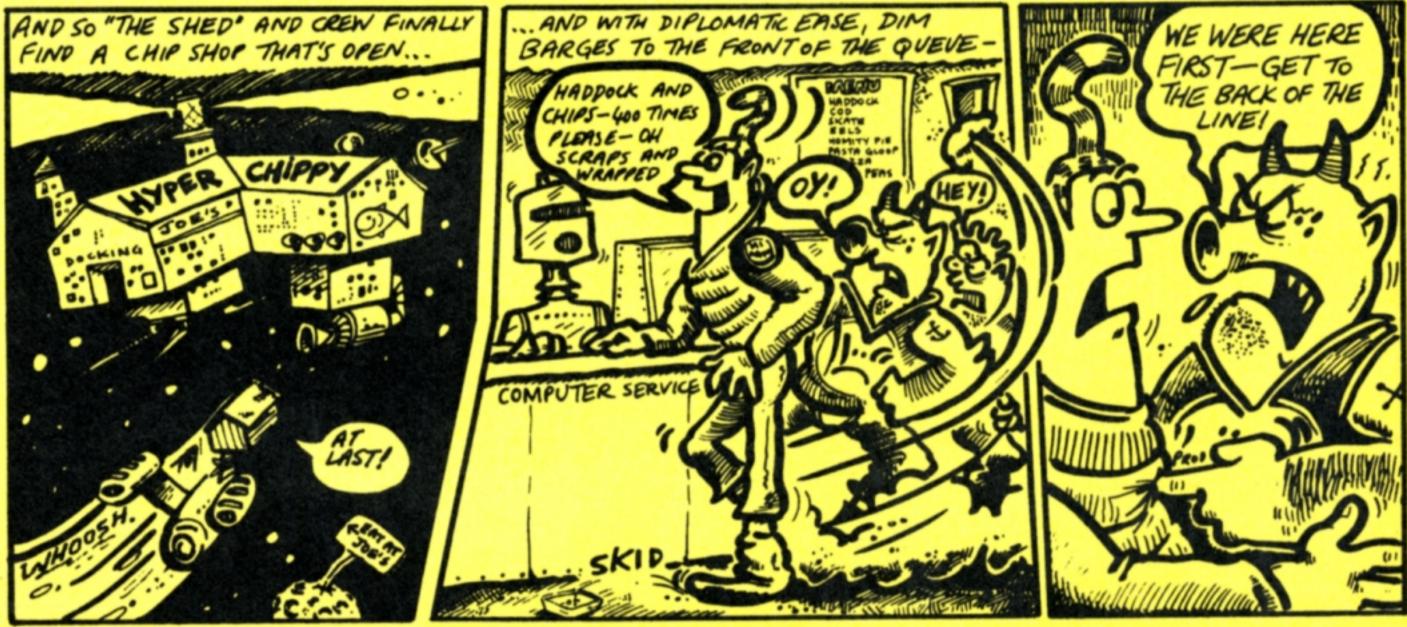
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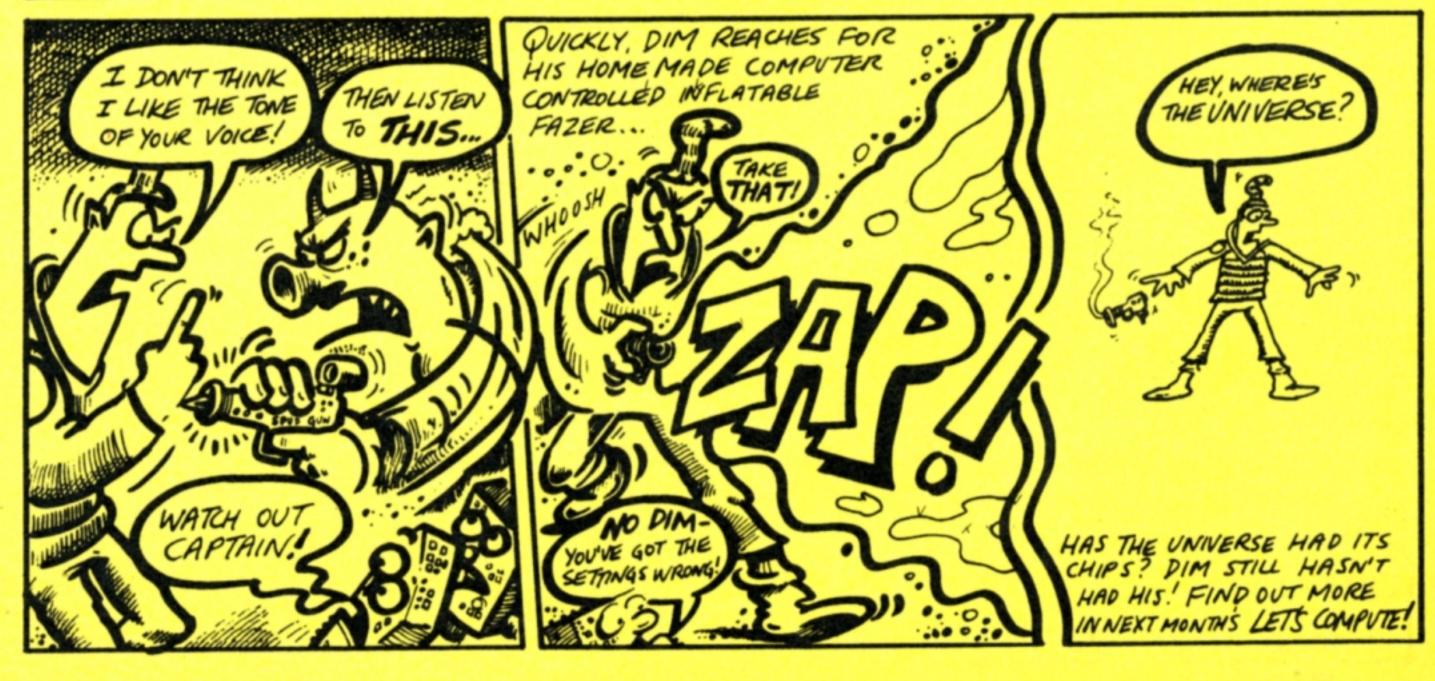
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Discover how easy it is to use your computer to raise funds

If you ask someone how to raise funds using a computer the answer you often get is: "Let people play computer games and charge them".

But it's just not worth the effort. Look at the costs involved:

Suppose a game lasts about five minutes. And you charge 20p a go.

In an hour the most you can make is £2.40. This means that at an event like a school fair you'd be lucky to get a fiver.

If you liven up the challenge by offering a cash prize for the highest score of the day you could even lose money. And don't forget that while the games are being played your keyboard, joystick or mouse will get quite a bashing.

So can computers be used in fundraising events?

The answer is YES. But there are three important things to remember:

- Make sure it's going to be profitable.
- Try to do something unusual. That way, if it's advertised, it will bring people to the event to see it.
- Don't do anything that may damage or quickly wear out your computer.

Over the next few months, Let's Compute! will look at ways computers like yours have been used to raise money. If you have any fund-raising ideas you have tried, let us know.

Fairgrounds often have a stall printing pictures of people on T-shirts. The personalised shirts cost up to £10 each.

Do it at a school fair and you can easily make lots of cash. And it's a great attraction.

You need at least one computer and a printer. You also need a video camera and digitiser. Many education authorities loan these to schools which don't have their own.

The other bit of equipment you'll need is a special ribbon. The panel on the right tells you where you can get them.

Set the equipment up in a bright corner of the hall. A spotlight and a good backdrop help, but aren't

Then, with the special ribbon in your printer, just print pictures of people on ordinary paper. Next you use a hot iron to transfer them on to a T-shirt.

Rather than having stocks of shirts you can just sell the transfers for, say, £1. It's a good idea to have a ready made shirt on display to show the final result.

To speed up the process you can have more than one computer and printer working. To do that, don't have a printer

connected to the computer the camera is plugged into.

Save the digitised picture on disc and take it to the computer with the printer. That way you can be taking the next picture while one is printing.

You can have several computers and printers on the go at once. If you have ordinary ribbons in some of the printers you can sell computer portraits on paper for, say, 40p.

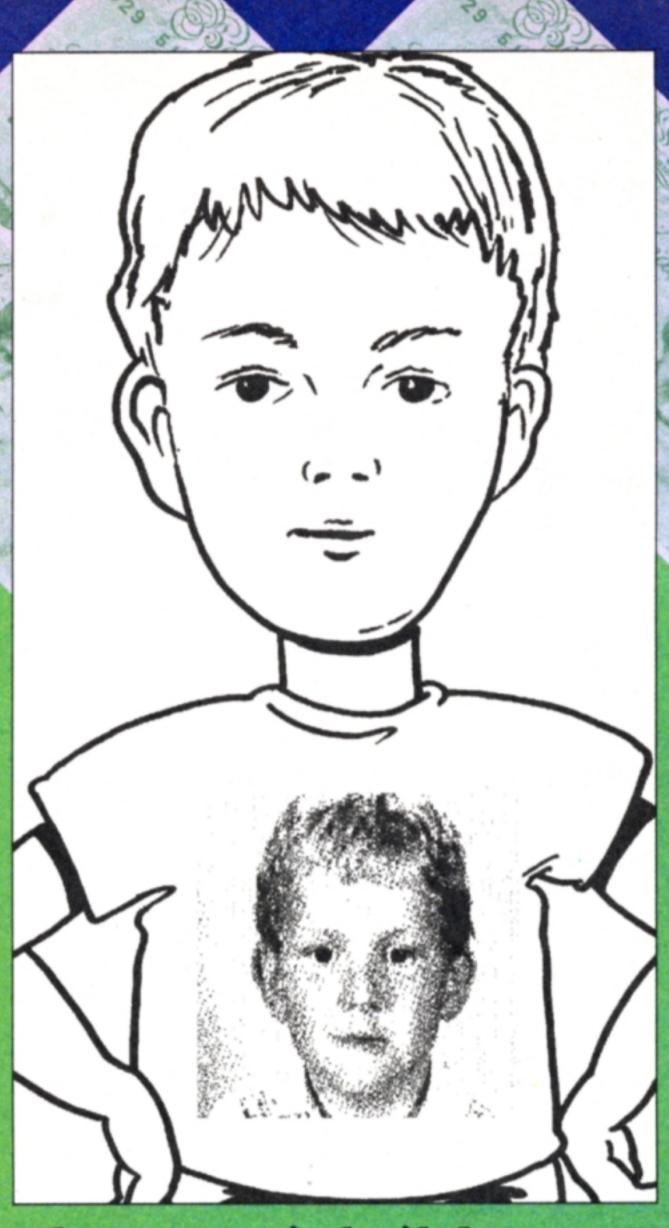
Using just one computer and printer you can do about one picture every five minutes.

That's 12 an hour - or about 25 in an afternoon.

A special ribbon costs about £10. So if you take £25 you're left with only £15 profit. But it's a great attraction and there are always lots of people around the stall.

One good tip: Put it next to a very profitable stall and you'll get even more customers!





The special ribbons

To get pictures on T-shirts you need heat-transfer ribbons. They look like ordinary ribbons and the printout looks the same.

But if you place the printout on a T shirt and iron over it the picture is transferred to the cloth.

A ribbon costs about £10 from Morley Electronics (091-257 6355) or Care Electronics (0923 672102).

The pictures on this page were all taken at a school fair. The equipment used was the school's BBC Micro and Epson printer together with a borrowed digitiser and video camera.

Transfers for T-shirts were sold for £1 and ordinary digitised pictures for 25p. About £18 profit was made on the stall during the afternoon.

FURTHER IDEAS

Use a digitised picture on a "Wanted" poster or fun newspaper page. Just prepare the poster or page beforehand. Then you only have to fill in a lift your only the picture.

If you can't get a digitiser and camera, you can still sell T-shirt transfers. People could put any message they want on them.

Remember you'll need to get the computer to print the mirror image of any words. Then they come out right when they're ironed on.

• You can get art programs for most computers to do this. You should really do it with pictures of people as well. But it takes time and nobody usually notices that face is the wrong way round!

Creating and editing BASIC programs is fun with



BET is a set of tools designed to make the creation and editing of BASIC programs a real pleasure.

BET handles program text like a wordprocessor. Using features like Copy, Move, Automatic Renumber, Search and Replace you'll find it easy to write programs in a well-structured, readable style.

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dream come true. You could win EVERY game released in a year by one of the biggest names in games software

inis is a once-in-a-lifetime opportunity! We want to find EIGHT winners - that's one for each of the most popular computer.

The eight software houses listed below will each adopt one Let's Compute! reader for a year. From January to December 1991 the lucky winners will get a copy of each new release from that software house.

AND THAT'S NOT ALL!

Each of the eight winners will also receive the impressive Certificate of Adoption shown here.

It will be signed by the software house and is a promise of a full 12 months' supply of games.

WHAT YOU HAVE TO DO

Simply fill in the answers to the five questions on the entry form on the right. Then send it to Let's Compute! before December 31.

PLUS

To complete this incredible prize each winner will also get lots of goodies from the software house. There are loads of posters, badges and other special bits and pieces waiting for them all.

ELMCTRONIC ARTS

With USA and UK offices, their PC games are some of the most innovative you can get. They already have Silpheed, Battle Chess and Populous to their credit. The winner with a PC will get ALL their releases next year.

WS. COLD

Calling all Atari ST owners. A copy of each of next year's US Gold coin-op and original games could be yours. They have some of the best graphics and sound around. Can you afford not to enter the contest?



Supreme on the BBC/Electron, they now want to adopt

someone who has one of these micros. With 1990 titles like Hostages, SimCity, Superior Golf and Soccer under their belts, 1991 looks like being a very exciting year.



Famous for budget titles, their full-priced games are often top of the charts. The lucky person they adopt will be the first to know what they have on offer for

Commodore 64 owners in 1991.



Producing more and more Archimedes games, 4th Dimension will be giving away a whole host of exciting games due to be released next year. With

past hits like E-type and Holed Out! There are bound to be several classics coming up.



Some of the best Amiga programmers around are working on

their 1991 releases. Mirrorsoft are offering a very special year of games to one lucky Commodore Amiga owner.

will sleigh you!



- 1. Which reindeer had the red nose?
 - a) Rudolph b) Randolph c) Prancer
- 2. The Scots give New Years Day a special name. What is it?
 - a) First Foot b) Hogmanay
 - c) Twelfth Night
- 3. What is the December 26 called?
 - a) Christmas Day b) Christmas Eve
- c) Boxing Day

- 4. What did the Three Wise Men bring to the baby Jesus?
 - a) Gold, silver and jewels
 - b) Gold, frankinsence and myrrh
 - c) Lamb, a camel and a donkey
- 5. Christmas decorations should be taken down on which date?
 - a) Twelfth Night
 - b) Boxing Day
 - c) New Year's Day



Games for the Spectrum are still many and various. Zeppelin produce some of the most original and unusual. With a pedigree

of such classics as Draconus, the winner could be in for a busy year.



well-earned With reputation for quality and quantity they produce all types of games. From

simulators to shoot-'em-ups, Codemasters do lots for the Amstrad CPC. The winner will get plenty of chances to practise joystick techniques.

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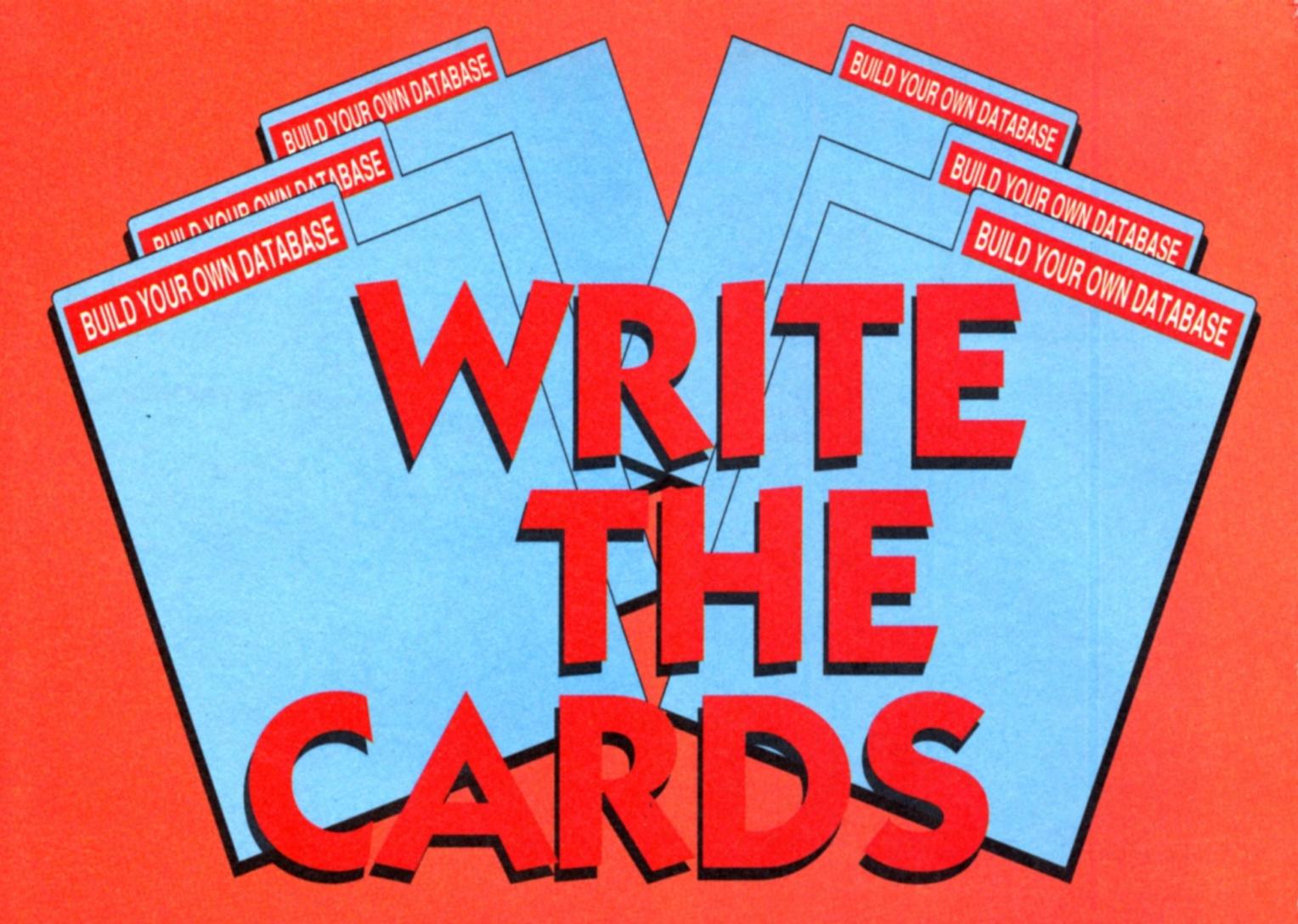
Age.....

Answers (please tick) Name..... Address b b C b

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My computer is a (please tick):

- ☐ BBC (tape)
- ☐ BBC (disc) □ BBC Master Compact
- ☐ Acorn Electron (tape)
- ☐ Acorn Electron (3.5in disc)
- ☐ Acorn Electron (5.25in disc) ☐ Commodore 64 (tape)
- ☐ Commodore 64 (disc)
- ☐ Spectrum (tape)
- ☐ Spectrum (disc)
- ☐ Amstrad CPC (tape)
- ☐ Amstrad CPC (disc)
- □ Commodore Amiga
- ☐ Atari ST
- ☐ A3000/Archimedes
- ☐ IBM PC compatable (3.5in disc) ☐ I BM PC compatable (5.25in disc)



Last month we started creating the Let's Compute! Card Index Database. Now Roland Waddilove shows what to do next

What is a database?

A database is a collection of facts and figures. We are surrounded by them.

A bus or train timetable is a database. So is the list of programmes in Radio Times.

We often use a database to look up facts and figures. But it takes time to find out information when its only written on paper.

How long would it take you to go through the phone book and find the number of Mr Smith who lives at 57 High Street, Manchester? You would have to spend ages wading through pages of Smiths looking for the right address.

But ring directory enquiries and you'll be told the correct number in a flash.

How do they do it?

The answer is that everyone's name, address and telephone number is stored on a computer.

The operator types in a name, presses a few more keys and, hey presto, the number is displayed on the screen.

Last month we started building our database by creating the main menu screen. This month we'll add more lines to the program so you'll be able to enter information on to the blank cards.

The section of code you need is in Lines 4000 to 4100. It is a subroutine called Write on Card.

Line 4000 is a REM to tell us what the following lines do. The next line sets a counter, called X, which points to the first card.

CARD INDEX DATABASE

- 1. Load a box of cards
- 2. Save a box of cards
- 3. Read/search for a card 4. Write on a new card
- 5. Throw away old cards
- 6. Change something on a card
- 7. Print the cards
- 8. Sort the cards into order 9. Stop the program

Cards free=45/Cards used=6
What do you want to do?
Please type in a number (1-9)

Line 4020 searches for the first card that hasn't been written on. It contains an asterisk character, which is what the program is looking for.

There can be up to five lines of text on each card. So a FOR ... NEXT loop (Lines 4050 to 4090) is used to put the lines into the array C\$. This is where the card information is held. If you want to leave a blank line just press Return without typing anything else.

But what if you make a mistake while entering information? Or if you change you mind after typing something in and want to throw away a card? A second subroutine starting at Line 5000 will sort things out.

Again, a REM at the start tells us what the subroutine does. Then Lines 5010 and 5020 search for cards that have information written on them. That means any card that hasn't got an asterisk.

When a card is found it is printed on the screen. You are then asked whether this is the card you want to throw away.

All you need to do is type Y or N. Your answer is read by the INPUT instruction in Line 5080.

Type in these two subroutines and try selecting Choices 4 and 5 from your menu. You can now enter some information and try throwing away cards or enter some new information.

But lets face it: A database isn't much use if you have to enter the information each time you want to use it!

Next month you'll find out how to save your cards on to tape or disc.

```
4000 REM ===== Write on Card =====
  4010 LET X=1
 4020 IF C$(X)<>"*" AND X<255 THEN X=X+
  4030 PRINT "Enter 5 lines of text on t
his card...'
 4646 PRINT
  4050 FOR Y=0 TO 4
 4060 PRINT "Line"; Y+1;
  4070 INPUT TS
  4080 LET C$(X+Y)=T$
  4090 NEXT Y
 4100 RETURN
 5000 REM == Throw away old cards ==
 5010 LET X=1
 5020 IF C$(X)="*" THEN GOTO 5100
 5030 CLS
  5040 FOR Y=0. TO 4
 5050 PRINT C$(X+Y)
 5060 NEXT Y
 5070 PRINT
 5080 INPUT "Throw away this card (Y or
N)";K$
 5090 IF K$="y" OR K$="Y" THEN LET C$(X
 5100 LET X=X+5
 5110 IF X<255 THEN GOTO 5020
 5120 RETURN
```

When you type things on your cards avoid commas (,) and quotes ("). On some computers these could make the program mess up your data.

IS THIS YOUR COMPUTER?

Electron/BBC/Archimedes/PC(GW BASIC) Amstrad CPC/ Atari ST(Stos)/Amiga(Amos)

The program will work as shown

Commodore 64/128

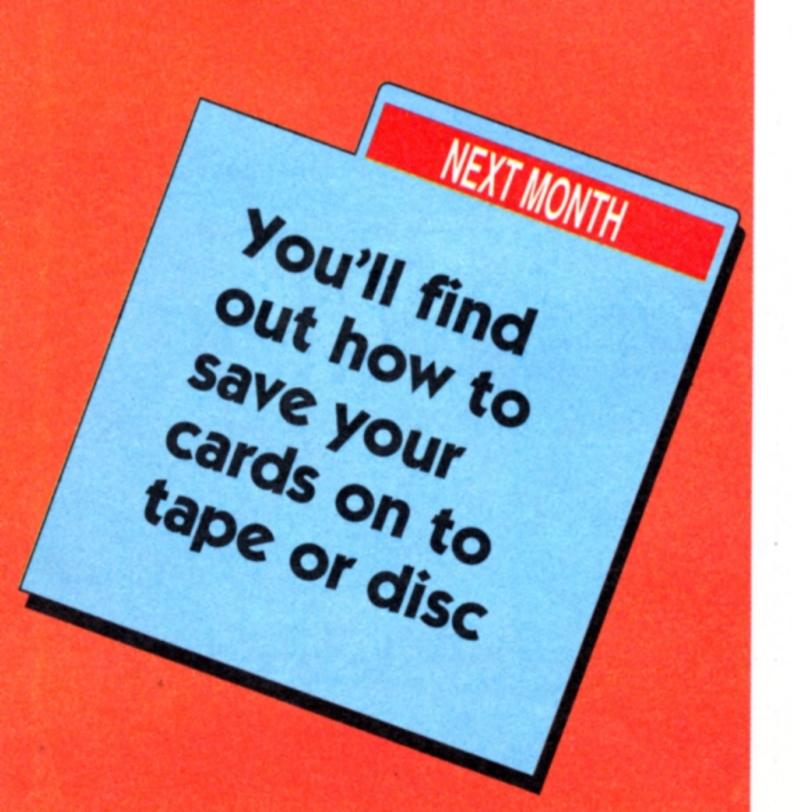
Change or add the following lines:

4050 FOR Y=0 TO 4:TS="" 4075 IF TS="" THEN 4090 5030 PRINT CHR\$(147);

Spectrum

Change or add the following lines:

4020 IF C\$(X) <> B\$ AND X < 255 THEN LET X=X +5 : GOTO 4020 4075 PRINT "";T\$ 5020 IF C\$(X)=B\$ THEN GOTO 5100



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Connects the Electron to serial RS423/RS232 devices, eg. printers, modems. Allows the transfer of programs, data, etc. from one computer to another. Has the same socket, so uses the same leads as the BBC. Includes a socket for a 32k RAM or 16k ROM, eg. the Mode 7 ROM. Fits into a Plus One/ROMbox Plus slot. Price £29.95 + £5 for a case + £20 for a 32k RAM.

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boss Mike Cook shows a clever way you can find out when those Christmas find out when

Santa Claus will soon be on his way. But the old chap moves around as quiet as a mouse. You never hear him delivering presents.

presents arrive

So how can you tell when he's arrived?

That's no problem for Gadget Shop fans. With the help of your computer you can catch him red handed. All you need to do is to link up a Let's Compute! Santa Claus detector.

In our October Issue we used magnetic reed relays to detect doors opening. But that's no use if Santa doesn't open doors.

We need to detect his foot fall instead. To do this we have to use a pressure pad.

We'll look at two types of pad. The first you can make yourself out of odds and ends. The other you can buy ready made.

How does a pressure pad work?

Two contacts are held apart and the weight of someone stepping on them forces them together. When they touch it sends a signal to your computer.

You have two problems to solve: What to use for contacts and how to keep them apart. As you'll see it's really very easy.

You'll need some aluminium baking foil, some thin strips of plastic foam, a length of wire and a couple of pieces of cardboard about 10cm by 10cm.

Wrap one piece of card in baking foil. Then make eight holes in the other card as shown in the diagram on the right. Through these you should thread some wire - but strip the insulation off first. Make sure the wires lies flat along the cardboard. The diagram shows how you should thread them.

It helps to hold them down with spots of glue. But make sure you don't use too much. Now connect the wires as shown.

Next you need to make a sandwich with the foam and the two pieces of card. The diagram below right shows you how it all goes together.

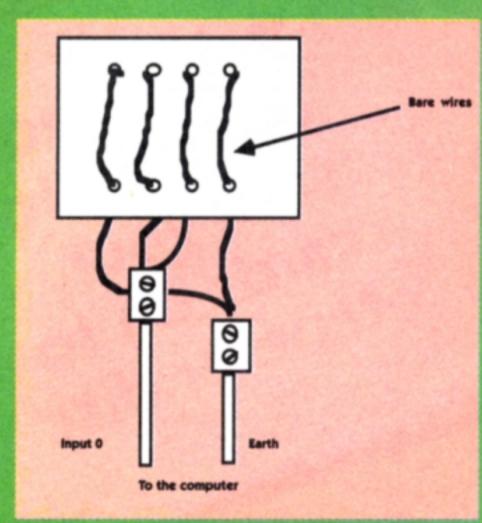
How hard you need to press on the pad to trigger it depends on how solid the foam is.

You may need to experiment with different thicknesses of foam for best results.

To conceal the pad simply slip it under the carpet. Near a door is best.

Make sure that the weight of the carpet doesn't trigger it off. If it does you will have to use thicker foam.

If you don't feel like making your



How to thread the wires through the card

IN THE SHOP SOON: O AUTO MONEY BOX



own pressure pads you can buy them from the Gadget Shop. These are black welded heavy duty PVC floor pressure pads. They measure 575mm by 170mm.

You can use as many pads as you have inputs to your computer. Acorn computers, except the Compact, have eight of them. Other makes, and the Compact, let you connect five.

To connect pads to your computer you need the Gadget shop Pack 1. This was explained in the August issue of Let's Compute! If you order one from the Gadget Shop you'll also get instructions.

The software is the same as for the burglar alarm described in October's Let's Compute! In case you missed it, details will be supplied when you buy a pad. Are you good at programming?

Why not modify the software to record the time Santa arrives? Or make an even louder noise to wake you up?

If you want you can put the pressure pad in a different room BBC Micro: The gadget connects to the User Port.

Archimedes and BBC A3000: You need an i/o podule.

Electron: You need a Plus One and User Port expansion - available from Pres (0276 72046).

Spectrum: The gadget connects to the joystick port. You'll also need an Interface 1.

Amstrad CPC, Commodore 64/128, Amiga and ST: The gadget connects to the joystick port.

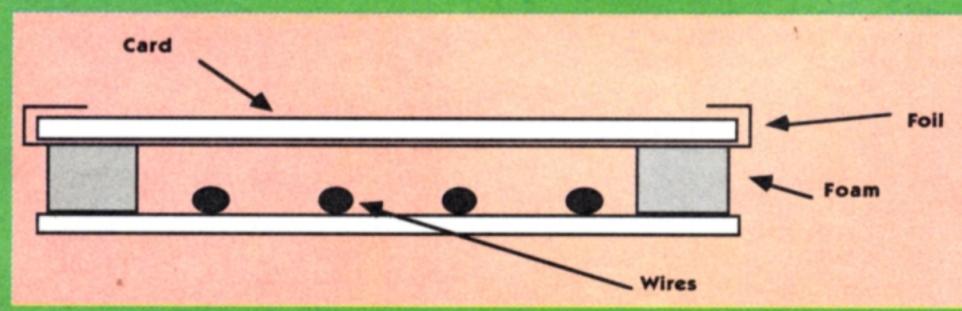
 The full assembly instructions are in Gadget Shop Packs 1 and 5. The short Basic routine to operate the gadget will be supplied when you order it.

to your computer. You can have several areas bugged and monitored from your own control room.

So, now you know how easy it is to detect that annual present intruder.

With all his great bulk and a sack of presents he'll certainly be caught by your trap.

Unless, of course, there is some other magic afoot!



The pressure pad sandwich

• WEATHER STATIONS

NEXT MONTH

What is a joystick? Something you use to control a game by wobbling it with your hand? Not always!

Next month in Let's Compute! discover how you can make a unique joystick you control with your feet!

ORDER FORM

Pack 5 - Floor pressure pad This pack contains a ready-made

pressure pad ready to make your Santa Claus Detector. You also need the connector cable (Pack 1). This is still available and you can use this form to get one.

Show what you want by ticking the correct box below.

☐ Floor pressure pad £3.55 each.

You'll also need Pack 1 - the User Port connector cable:

- ☐ 20 way IDC plug, length of 20 way ribbon cable, 12 way chock block, cardboard base, 2 foam sticky pads PLUS 2 spare connectors and a resistor£1.99
- As above but with IDC plug ready connected ...£2.49
- As above but with connector for Master Compact in place of IDC plug ... £3.99
- ☐ As above but with connector for joystick port of Spectrum, Amstrad CPC, Commodore 64/128, ST or Amiga in place of IDC plug. Basic program and instructions will also be supplied ... £3.99

Please state your type of computer:

Educational establishment orders accepted.

Make cheques payable to Musbury Consultants and send to: Musbury Consultants, 8 Fairhill, Helmshore, Rossendale, Lancs BB4 4JX

Name
Address
Post code

In the popular game Simon you have to remember the sequence of four flashing lights. This unique Let's Compute! version uses the alphabet in place of the lights. But the idea is the same.

When you RUN the program the alphabet is shown on your computer screen. Press the spacebar to start. Arrows will point to a letter and then disappear.

All you have to do is remember which letter the arrows pointed to. Then press the same letter on your keyboard. You must use capital letters. If you get it right it will appear again, followed by a second letter.

You now have two keys to press. If you get them right another will be added and you have another go. So the pattern of letters keeps increasing one by one.

If you press the wrong letter your computer will show you the order in which you should have pressed the letters.

Now type the listing in, RUN it and test your memory!

POSSIBLE PROGRAM IMPROVEMENTS

- The program is set up so your computer can remember a pattern of 100 letters. If you think you can do better, change the DIM S(100) in Line 60 to, say, DIM S(500). The biggest number you're allowed to put there depends on the type of computer you're using.
 - Put your own routine in the program to time how long it takes to type the letters. Make the program add some points to the score if you're quick.
 - Add colour to brighten up the display.

How good is your memory? Here's a game that will put it to the

10 REM THE BRAIN GAME 20 REM (c) LET'S COMPUTE! 10 REM THE BRAIN GAME 30 LET AS="ABCDEFGHIJKLMNOPQRSTUVWXYZ 40 LET S\$=" ":LET B=0 50 FOR N = 1 TO 5:LET S\$=S\$+S\$:NEXT 60 DIM S(100) 70 LET W=40:LET X=RND(-TIME) 80 CLS BRAIN GAME": GOSUB 340 150 LET Y=15:LET MS="WATCH!":GOSUB 340 400 REM DELAY 160 FOR N=1 TO M 170 GOSUB 520 180 LET H=S(N):GOSUB 480 190 LET D=1:GOSUB 440:GOSUB 400 200 NEXT N 210 GOSUB 520 460 REM GET A KEY
220 LET Y=15:LET MS="NOW IT'S YOUR GO" 470 LET KS=GETS:RETURN :60SUB 340 230 FOR N=1 TO M 240 LET F=0:GOSUB 460:IF K\$<"A" OR K\$> :PRINT"V" "Z" THEN GOTO 240 250 IF K\$<>CHR\$(S(N)+64) THEN LET F=1: LET N=M

260 LET H=ASC(K\$)-64:GOSUB 520:GOSUB 4 80:60SUB 440 270 NEXT N 280 IF F=1 THEN GOSUB 620:GOTO 80 290 GOSUB 560 300 LET M=M+1:GOSUB 520:LET D=2:GOSUB 580 GOSUB 730 590 SOUND 1,-15,200,30 290 GOSUB 560 90 LET Y=3:LET M\$="THE LET'S COMPUTE! 330 LET X=RND(X):RETURN

AIN GAME":GOSUR 340 340 340 REM PRINT MESSAGE BRAIN GAME":GOSUB 340

100 LET Y=10:LET M\$=A\$:GOSUB 340

350 LET X=4:GOSUB 380:PRINT S\$

630 SOUND 1,-15,2,30

110 LET M=1:LET N=1

360 LET X=(W-LEN(M\$))/2-1

120 GOSUB 730

370 GOSUB 380:PRINT M\$

340:LET D=2:GOSUB 400:G

380 REM TAB(X,Y)

140 LET X=26:GOSUB 320:LET S(M)=X

390 PRINT TAB(X,Y);:RETURN

660 FOR N=1 TO M 410 TIME=0 420 IF TIME<D*100 THEN GOTO 420 430 RETURN 440 REM BEEP 450 VDU7: RETURN 480 REM POINTERS 490 LET X=(W-30)/2+H:LET Y=9:GOSUB 380 730 REM PRINT SCORE 510 RETURN 520 REM CLEAR POINTERS

530 LET Y=9:LET M\$=\$\$:GOSUB 340 540 LET Y=11:60SUB 340 550 RETURN 560 REM WIN 570 IF (N-1)>B THEN LET B=N-1 310 REM ** START OF SUBROUTINES **

600 LET Y=15:LET M\$="WELL DONE":GOSUB
320 REM RANDOM

340:LET D=2:GOSUB 400 610 RETURN 620 REM LOOSE 640 LET Y=15:LET M\$="HARD LUCK":GOSUB 340:LET D=2:GOSUB 400:GOSUB 690 650 LET MS="HERE'S WHAT YOU SHOULD HAV E DONE":GOSUB 340:LET D=1:GOSUB 400 660 FOR N=1 TO M 670 LET H=S(N):GOSUB 520:GOSUB 480:GOS UB 440:60SUB400:NEXT N 680 RETURN 690 REM PRESS SPACE 700 LET Y=15:LET MS="PRESS SPACE":GOSU
B 340
710 GOSUB 460:IF K\$<>" " THEN GOTO 710 720 RETURN 740 LET Y=6:LET MS="SCORE "+STR\$(N-1)+ 500 LET Y=11:60SUB 380:PRINT"A" LEFTS(S\$, W/2)+"BEST "+STR\$(B):60SUB 340 750 RETURN

Electron/BBC/Archimedes

The programs work as shown

Commodore 64/128

Enter the program in capitals Change the following lines:

25 S=54272:POKES+24,15:POKES+6,240
80 PRINT CHR\$(147);
330 LET X=INT(RND(0)*X)+1:RETURN
390 POKE 211,X:POKE 214,Y:SYS 58732:RE

TURN
410 TI\$="000000"
450 DU=300:FR=32:GOSUB 800:RETURN
470 GET K\$:IF K\$="" THEN 470
475 RETURN
590 DU=800:FR=64:GOSUB 800
630 DU=800:FR=16:GOSUB 800
800 POKE S+1,FR:POKE S+4,17:FOR T=1 TO
DU:NEXT:POKE S+4,16:RETURN

Spectrum

Select 48k mode

70 LET W=34: RANDOMIZE 260 LET H=CODE (K\$)-64:60 SUB 520:60 S UB 480:60 SUB 440 330 LET X=INT (RND*X+1): RETURN 350 LET X=4: GO SUB 380: PRINT S\$(TO 31) 390 PRINT AT Y,X;: RETURN 410 LET T=PEEK (23672)+D*50: IF T>255 THEN LET T=T-256 420 IF PEEK (23672) <> T THEN GOTO 420 450 BEEP .2,9: RETURN 470 LET KS=INKEYS: IF KS="" THEN GO TO 500 LET Y=11:GOSUB 380:PRINT"1" 530 LET Y=9:LET M\$=\$\$(TO 26): GO SUB 590 BEEP 1.5,36 630 BEEP 1.5,-12 740 LET Y=6:LET M\$="SCORE "+STR\$ (N-1) +S\$(TO W/2)+"BEST "+STR\$ (B):GOSUB 340

Amstrad CPC

Change the following lines:

70 LET W=40:RANDOMIZE TIME
330 LET X=INT(RND*X+1):RETURN
390 LOCATE X+1,Y+1:RETURN
410 LET T=TIME+D*300
420 WHILE T>TIME:WEND
450 SOUND 1,142,20,15:RETURN
470 LET K\$=INKEY\$:WHILE K\$="":LET K\$=1
NKEY\$:WEND:RETURN
500 LET Y=11:GOSUB 380:PRINT"†"
590 SOUND 1,28,150,15
630 SOUND 1,500,150,15

PC (GW-Basic)

Change the following lines:

70 LET W=40:RANDOMIZE TIMER
330 LET X=INT(RND*X+1):RETURN
390 LOCATE Y+1,X+1:RETURN
410 LET T=TIMER+D/2
420 WHILE T>TIMER:WEND
450 BEEP:RETURN
470 LET K\$=INKEY\$:WHILE K\$="":LET K\$=I
NKEY\$:WEND:RETURN
590 SOUND 253,18
630 SOUND 150,8

Amiga and Atari ST

Use Amos or Stos

70 LET W=40:LET X=RND(TIMER)
80 MODE 1:KEY OFF:CURS OFF:HIDE:CL

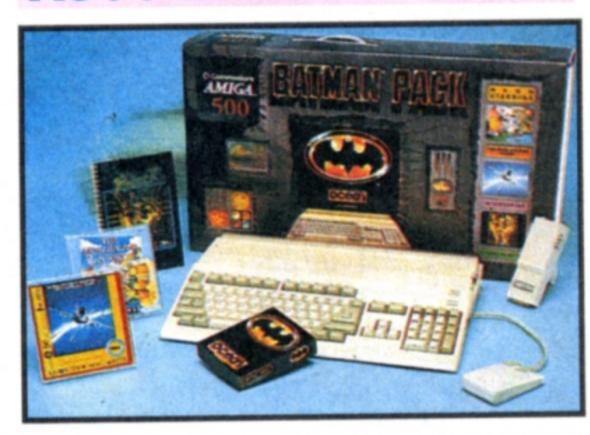
ICK OFF
330 LET X=RND(X-1)+1:RETURN
390 LOCATE X,Y:RETURN
410 LET T=TIMER+D*300
420 WHILE T>TIMER:WEND
450 BELL:RETURN
470 LET K\$=INPUT\$(1):RETURN
590 VOLUME 10:PLAY 2,55,30:VOLUME 0
630 BOOM

Amos: Leave Line 80 as:

COMPUTER



A500 BATMAN PACK



The Commodore A500 Batman Pack must surely rank as one of the most popular computer packs ever! The pack features the Commodore Amiga 500 computer with mouse controller and TV modulator, plus four top software titles. The software includes: 'Batman The Movie' - rid Gotham City of the cunning Joker, in Ocean's top selling title based on the blockbuster Batman film; New Zealand Story - high quality conversion of the leading arcade game; Interceptor - dogfight with two F-16s in this leading flight simulator; Deluxe Paint II - top quality Amiga graphics package which set the standard for others to follow. Return the coupon for further details.

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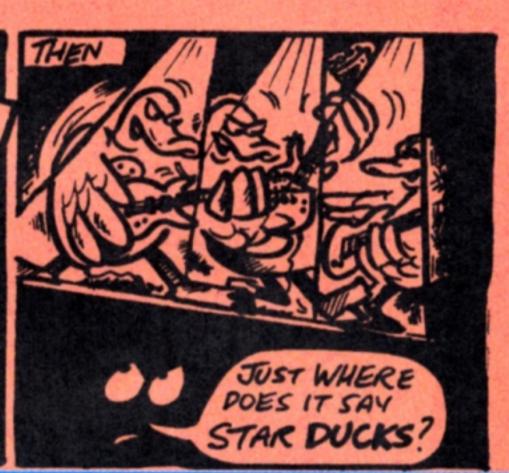
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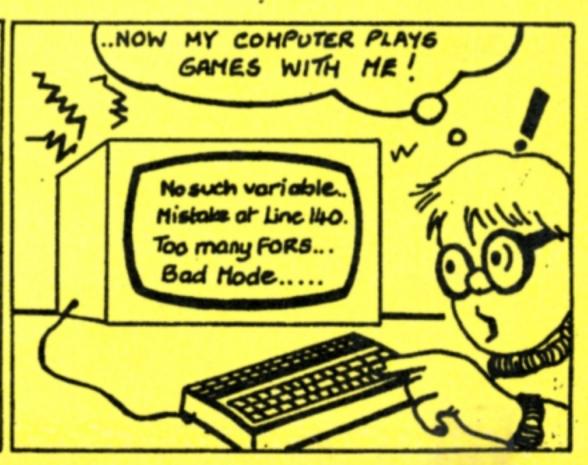




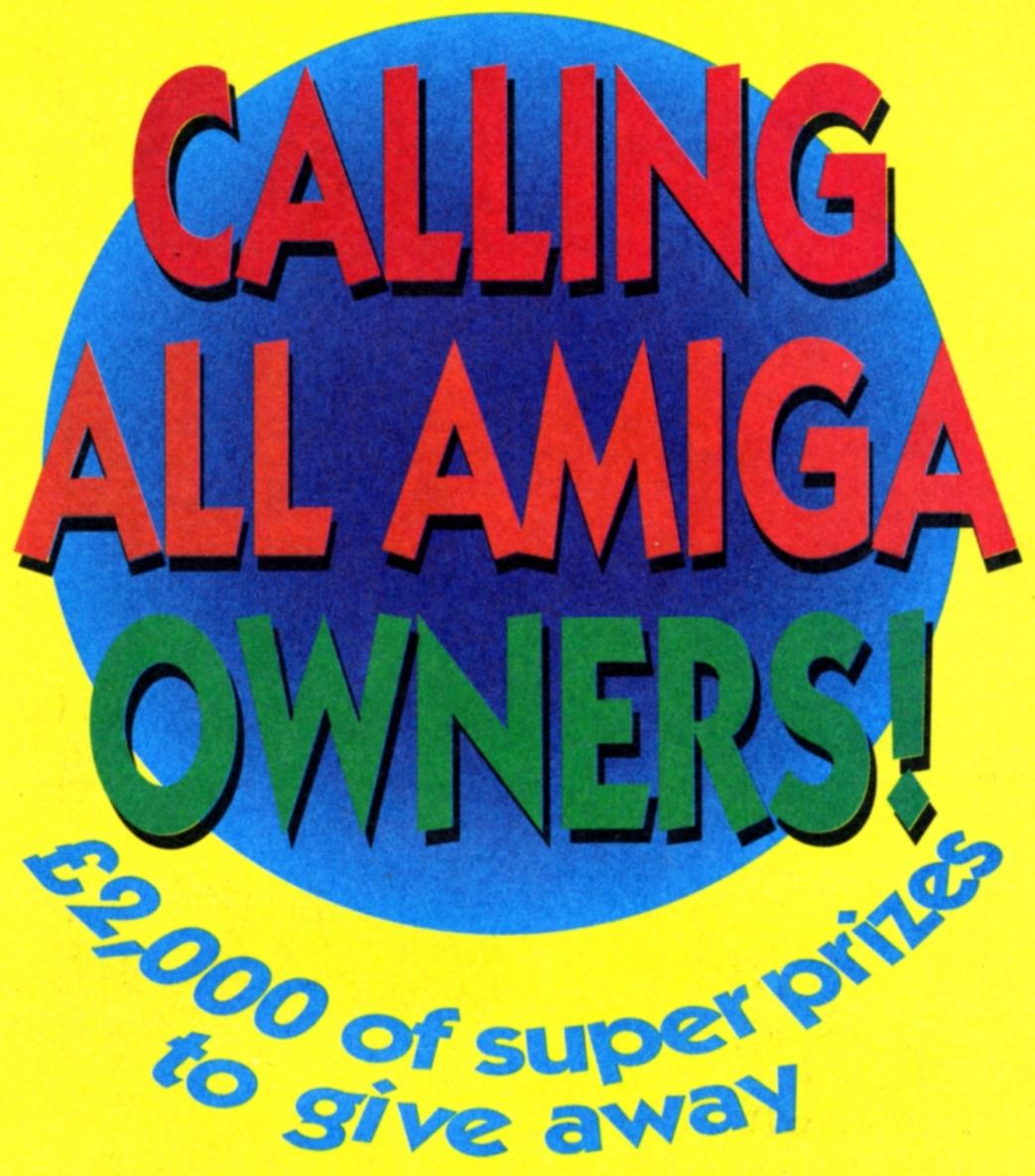
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The usually helpful insects have been brain-washed by the Evil Slug. Only you with your insecticide spray gun can put everything right.

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	Entry form	
PEST	NameAddress	
	Postcode to: BugBash/Nucleus Contest, Let's Clouse, Adlington Park, Macclesfield Sk	







HIS CONFIDENTE! HIS CO

Game	Computer	Score	Name	Age
Arcadians	BBC	10,001	Jonathan English	8
Arkanoid	Amstrad CPC	679,535	Clair Brooks	14
Bananaman	BBC	87,920	Elanor Dickenson	11
Battle Tank	Archimedes	2,000	Alex Waddell	10
Bird Basher	BBC	Level 8	Katie Penny	10
Blitzkrieg	Electron	59,800	James Hollis	14
Bubble Bobble	Commodore 64		Nathan Philips	9
Chuckie Egg	Electron	32,540	Tom Bason	11
Crack up	Electron	1,002,050	Mr B Ashdown	18+
Despatch Rider	BBC	23,375	Ryan Simpson	10
E-Type	Archimedes	346,656	Gregg Bailes	13
Emelyn Hughes	Amstrad CPC	24-0	Steven Esdale	12
Firetrack	BBC	409,920	Matthew Thompson	16
Galactic Player	Amstrad CPC	2,380	Samantha Terrace	12
Galaforce	Electron	34,840	James Brand	15
Ghosts & Goblins	Atari ST	48,600	James Laidlaw	13
Ghoulles	BBC	754	Paul Tarring	8

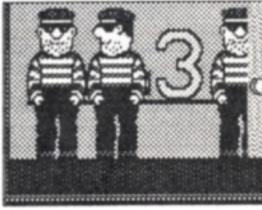
Game	Computer	Score	Name	Age
Hopper	BBC	69,300	Winston Chambers	12
Hopper	Electron	12,330	James Jagger	12
Key Man	BBC	83,500	Jonathan Rawle	11
Killer Gorilla	BBC	12,600	Heetan Patel	11
Labyrinth	BBC	225,890	James Greenstreet	12
Nevryon	BBC	252,200	Sattar, Shakoor	12
Pacmania	Archimedes	355,630	Mark truman	13
Pipemania	Spectrum	70,650	Alan Whysall	14
Quazer	Archimedes	49,501	John Edwards	13
Rainbow Islands	Amiga	1,481,060	James Butler	13
Renegade	Commodore 64	379,150	Dermot Al Bergin	12
Robocop	Amiga	238,880	Alex Crawford	15
Shadow Warriors	Spectrum	36,000	Paul Maggs	13
Skirmisk	BBC	96,100	A. Jenkins	12
			Matthew Chatterley	11
Stellar Rescue	BBC	1,420		
WDW2	Amstrad CPC	80,102	James Notean	10
Zarch	Archimedes	11,511,	Jon Bell	8

Send us YOUR scores NOW!

Name	Computer	
Address	Game	Score
	Game	Score
Age	Game	Score

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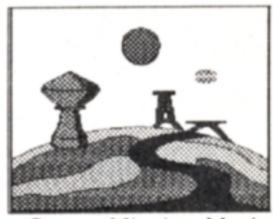
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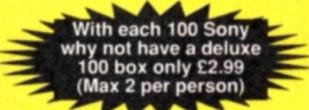
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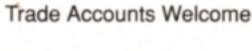
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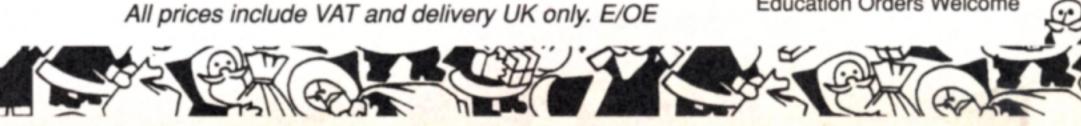
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You can find out how to join the Club on Page 32 – and about all the other goodies sent out to members.

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Oh yes it is!

Noel Turtle is always losing things. He searched everywhere for a star to put on his Christmas tree. But the poor Christmas turtle couldn't find one.

So he decided to make his own. He made a knot in the shape of an interweaving eight-pointed star.

The program he used to do it is shown below.

You can easily draw a star using Noel's program. The result will be like the star Noel is seen putting on top of his Christmas tree.

You first need to run the Logo language. This is available for most computers.

If you haven't got Logo and you're using an Acorn computer the *Let's Compute!* Turtle Logo is an ideal starting point – see the offer on the left.

Once your Logo language is running type in Noel's program. Then save it by entering:

SAVE "STAR

Now the program's in your computer you can see Noel's star by typing:

STAR8 50

To draw stars of different sizes just change the 50 to another number.

If you're using the *Let's Compute!* Turtle you can make the star twinkle. To do this add an extra line before the END of STAR8. On that line

you just
put the word
TWINKLE. Then add
these four lines to the end of the program:

TO TWINKLE DOFOREVER INK RANDOM 8 END

Like before, just type STAR8 50 to see the star being drawn. Once it is complete it will start twinkling.

Can you draw an interesting, interweaving pattern in Logo? If you can we'd love to see it.

Post it to: Let's Compute! Adlington Park, Macclesfield SK10 4NP.

There's a super Let's Compute! baseball cap for the writer of every one we print.

TO STAR8 :SIZE TO INNER : SIZE JUMP : SIZE RT 22.5 FD :SIZE * 14 / 10 REPEAT 8 JUMP :SIZE * 14 / 10 OUTER :SIZE [FD :SIZE * 14 / 10 FD :SIZE * 34 / 10 RT 90 JUMP : SIZE JUMP : SIZE RT 135] FD :SIZE * 18 / 10 JUMP : SIZE * 14 / 10 LT 90 END JUMP : SIZE * 24 / 10 FD :SIZE * 2 TO JUMP :SIZE RT 135] INNER : SIZE END END FD :SIZE * 41 / 100 TO OUTER :SIZE REPEAT 8 END [FD :SIZE * 24 / 10

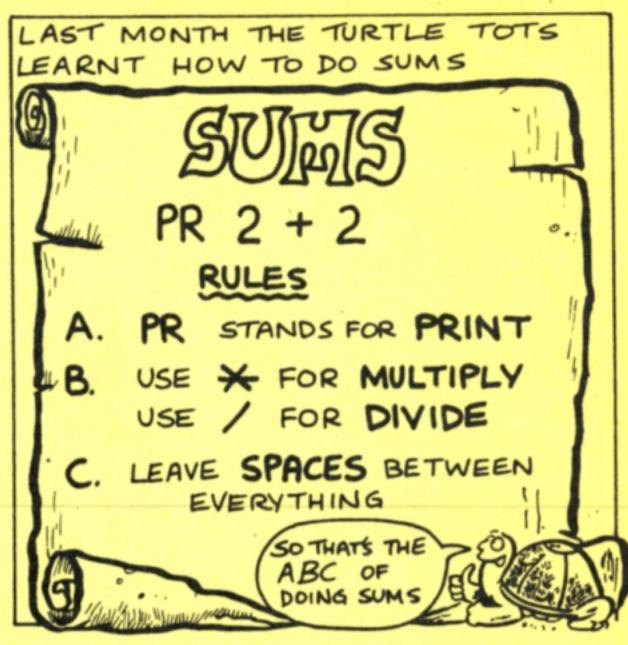
Note: If you're using Let's Compute! Turtle Logo enter the program as it is printed.

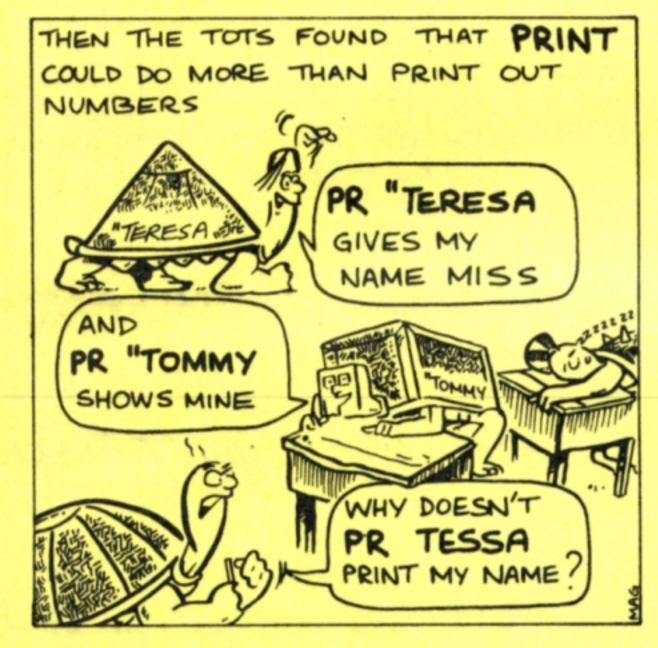
If you're using Logotron Logo, put the [and everything following it up to the] on the same line as REPEAT 8. Do not press Return until you have typed].

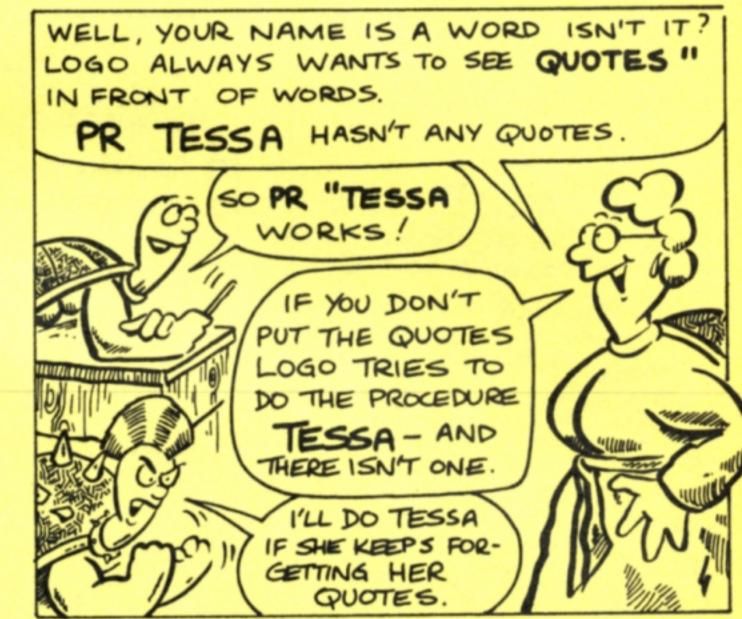
If what you are typing is too long to fit on one line of the screen, Logotron Logo puts! at the end of your line and lets you continue on the next one. Ignore the! and imagine you are still typing one line.

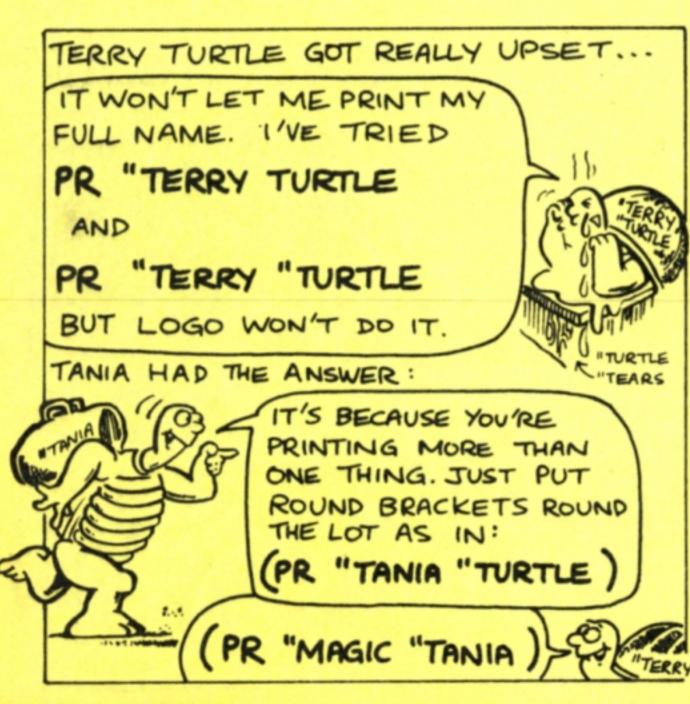
Other versions of Logo have different ways of treating REPEAT if it won't all go on one line. Most of them are similar to the two we've mentioned so check your instructions.

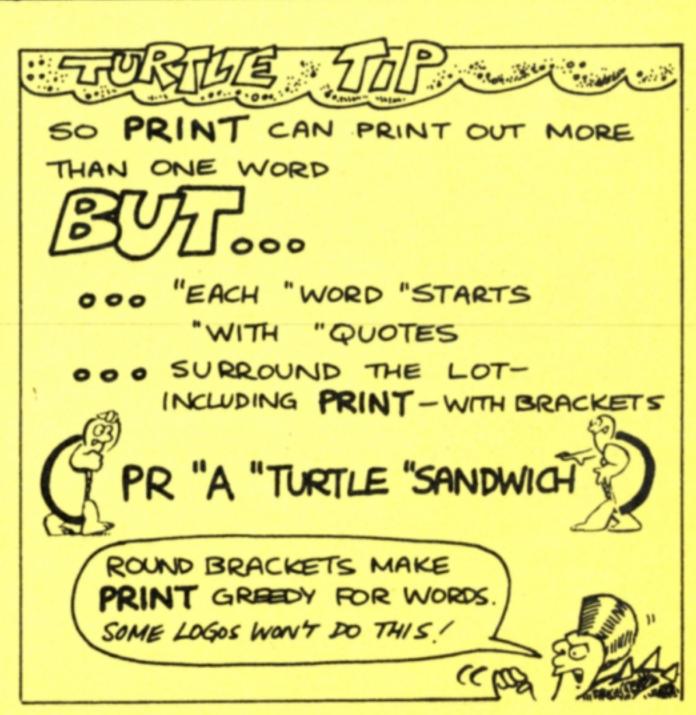






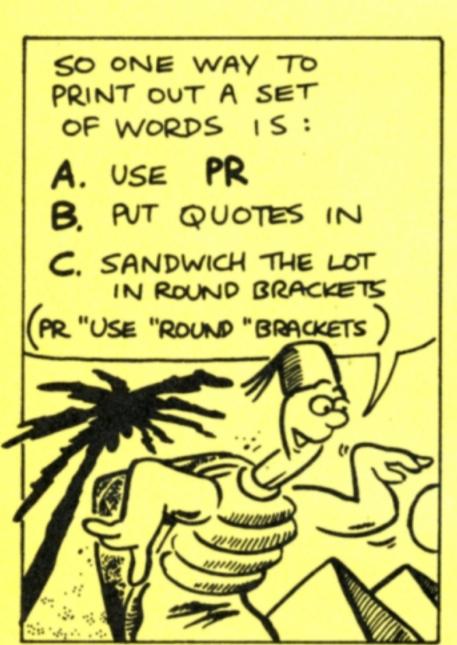


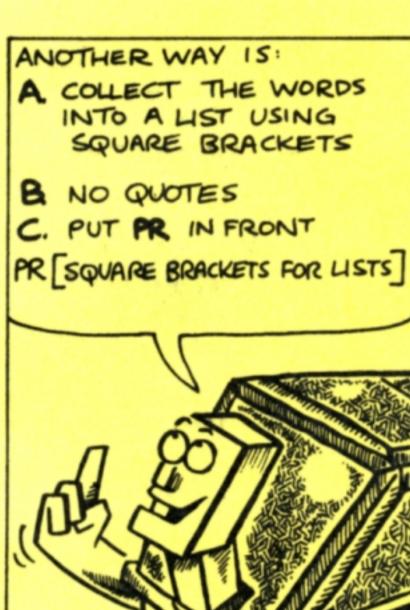




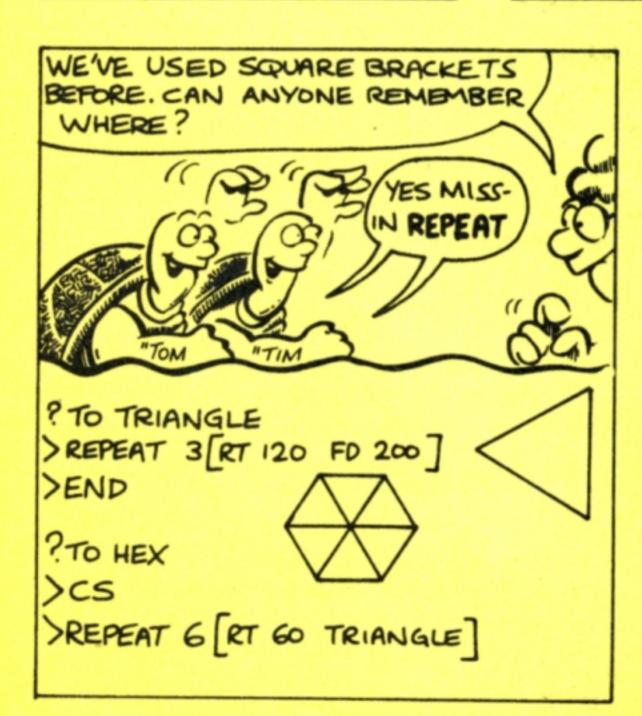


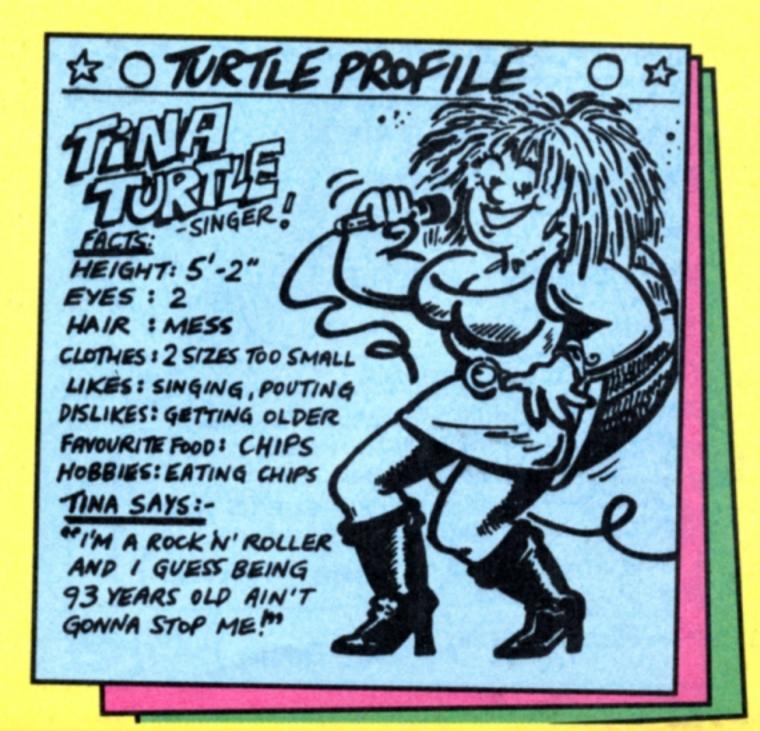


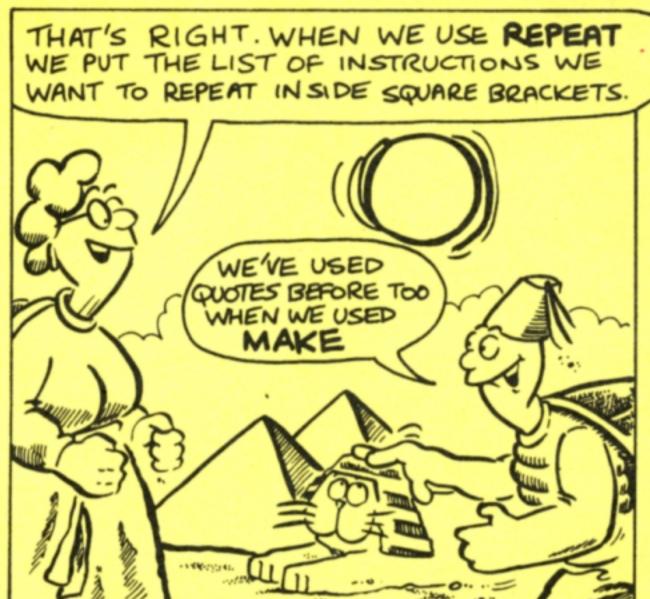


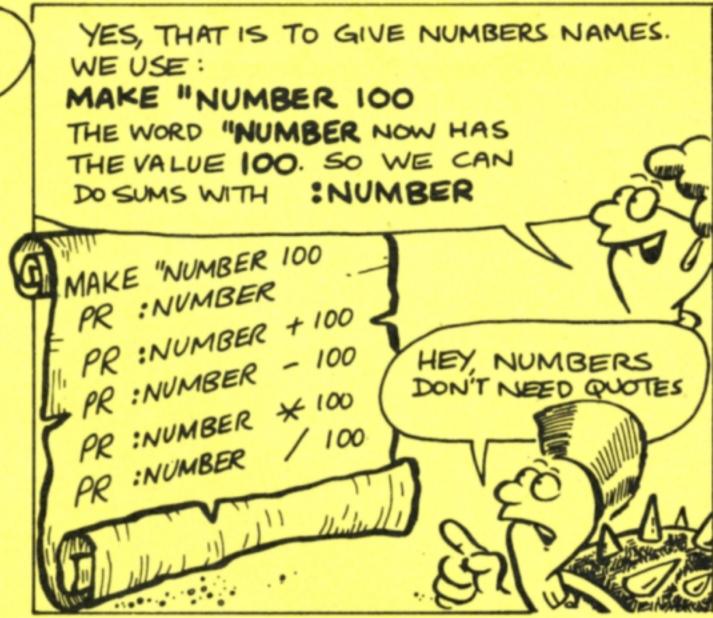


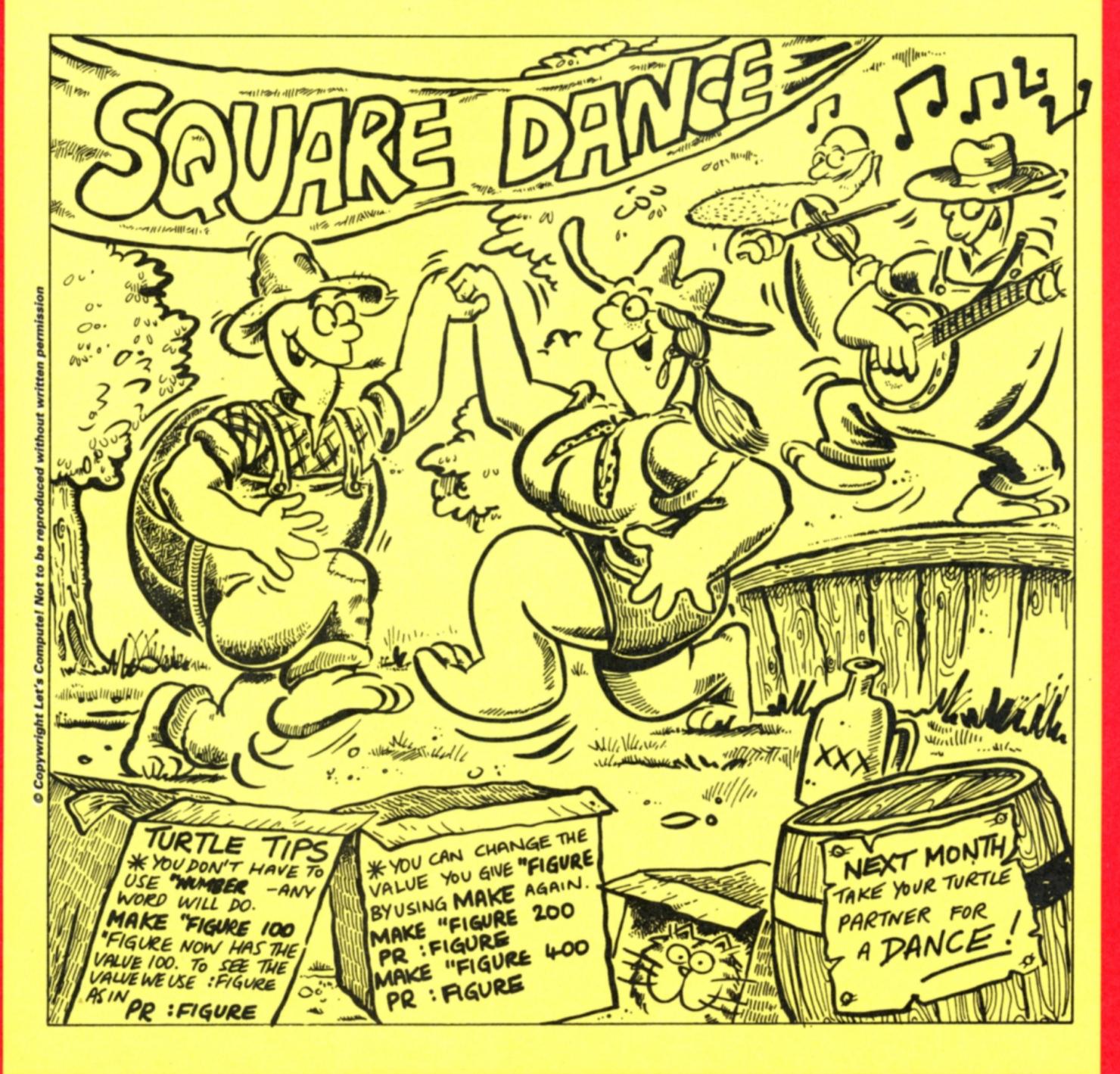












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MONOPOLY	BB	8.99	9.99	N/A
NEVRYON	BB	N/A	9.99	10.99
PERPLEXITY	BB/EL	6.99	8.99	9.99
PIPEMANIA	BB/EL	6.99	9.99	N/A
PREDATOR		6.99	8.99	9.99
QUESTION OF SPORT	BB/EL	8.99	9.99	13.99
REPTON/INFINITY	BB/EL	8.99	9.99	13.99
RICOCHET	BB/EL	6.99	8.99	9.99
SCRABBLE	BB	8.99	9.99	N/A
STAR WARS		6.99	8.99	N/A
TRIVIAL PURSUIT-GENUS	BB	9.99	13.99	N/A
U.I.M	ВВ	N/A	13.99	14.99
WHITE MAGIC 1 OR 2	BB/EL	6.99	8.99	9.99

BBC/ELECTRON BUDGET

3-D SNOOKER	3-D DOTTY		1.99	KRAKOUT	88	2.99
AIRWOLF			2.99			
ANACHY ZONE			1.99			_
ARKANOID BB 2.99 MINI OFFICE EL 2.99 BARBARIAN BB 2.99 MR.WIZ BB/EL 2.99 BUG EYES 2 BB/EL 2.99 PAPERBOY BB/EL 2.99 CAMELOT BB/EL 2.99 PRO BOXING SIM BB/EL 2.99 CITADEL BB/EL 2.99 PRO GOLF BB/EL 2.99 COMMANDO BB 2.99 REPTON 1 OR 2 BB/EL 2.99 CREEPY CAVE BB/EL 2.99 REPTON 1 OR 2 BB/EL 2.99 DARTS BB/EL 1.99 REPTON THRU TIME BB/EL 2.99 DATHSTAR BB/EL 1.99 REPTON THRU TIME BB/EL 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 2.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRAK BB/EL 1.99 SPELL BINDER BB/EL 2.99 GALA-ORCE BB/EL <	ANACHY ZONE	BB/EL	1.99			
BUG EYES 2			2.99			2.99
CAMELOT BB/EL 2.99 PRO BOXING SIM BB/EL 2.99 CITADEL BB/EL 2.99 PRO GOLF BB/EL 2.99 COMMANDO BB 2.99 RAVENSKUL BB/EL 2.99 CREEPY CAVE BB/EL 2.99 REPTON 1 OR 2 BB/EL 2.99 CREEPY CAVE BB/EL 1.99 REPTON 3 NEW BB/EL 2.99 DARTS BB/EL 1.99 REPTON THRU TIME BB/EL 2.99 DOMINOES BB/EL 2.99 REVS 4 ADD ON TRACKS BB 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 1.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRAK BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPELL BINDER BB/EL 2.99 GOLF BB/EL 2.99 SPOOKSVILLE BB/EL 2.99 GREEN BERET BB <td>BARBARIAN</td> <td>88</td> <td>2.99</td> <td>MR.WIZ</td> <td></td> <td>2.99</td>	BARBARIAN	88	2.99	MR.WIZ		2.99
CAMELOT BB/EL 2.99 PRO BOXING SIM BB/EL 2.99 CITADEL BB/EL 2.99 PRO GOLF BB/EL 2.99 COMMANDO BB 2.99 RAVENSKUL BB/EL 2.99 CREEPY CAVE BB/EL 2.99 REPTON 1 OR 2 BB/EL 2.99 CREEPY CAVE BB/EL 1.99 REPTON 3 NEW BB/EL 2.99 DARTS BB/EL 1.99 REPTON THRU TIME BB/EL 2.99 DOMINOES BB/EL 2.99 REVS 4 ADD ON TRACKS BB 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 1.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRAK BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 2.99 SPOOKSVILLE BB/EL 2.99 GREEN BERET BB <td>BUG EYES 2</td> <td>BB/EL</td> <td>2.99</td> <td>PAPERBOY</td> <td>88/EL</td> <td>2.99</td>	BUG EYES 2	BB/EL	2.99	PAPERBOY	88/EL	2.99
CITADEL BB/EL 2.99 PRO GOLF BB/EL 2.99 COMMANDO BB 2.99 RAVENSKULL BB/EL 2.99 CRAZEE RIDER BB/EL 2.99 REPTON 1 OR 2 BB/EL 2.99 CREPY CAVE BB/EL 1.99 REPTON 3 NEW BB/EL 2.99 DARTS BB/EL 1.99 REPTON THRU TIME BB/EL 2.99 DEATHSTAR BB/EL 2.99 REVS 4 ADD ON TRACKS BB 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 1.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRAK BB/EL 2.99 SPELL BINDER BB/EL 1.99 FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPELL BINDER BB/EL 2.99 GOLF BB/EL 2.99 SPOOKSVILLE BB/EL 2.99 GOLF BB	CAMELOT	BB/EL	2.99	PRO BOXING SIM	88/EL	2.99
CRAZEE RIDER BB/EL 2.99 REPTON 1 OR 2 BB/EL 2.99 CREEPY CAVE BB/EL 1.99 REPTON 3 NEW BB/EL 2.99 DARTS BB/EL 1.99 REPTON THRU TIME BB/EL 2.99 DEATHSTAR BB/EL 2.99 REVS 4 ADD ON TRACKS BB 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 1.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GREAN BERET BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GRID IRON 2 BB/EL 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GRID IRON 2 BB/EL 2.99 STRIP POKER BB/EL 2.99	CITADEL		2.99			2.99
CRAZEE RIDER BB/EL 2.99 REPTON 1 OR 2 BB/EL 2.99 CREEPY CAVE BB/EL 1.99 REPTON 3 NEW BB/EL 2.99 DARTS BB/EL 1.99 REPTON THRU TIME BB/EL 2.99 DEATHSTAR BB/EL 2.99 REVS 4 ADD ON TRACKS BB 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 1.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GREAN BERET BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GRID IRON 2 BB/EL 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GRID IRON 2 BB/EL 2.99 STRIP POKER BB/EL 2.99			2.99	RAVENSKULL	BB/EL	2.99
CREEPY CAVE BB/EL 1.99 REPTON 3 NEW BB/EL 2.99 DARTS BB/EL 1.99 REPTON THRU TIME BB/EL 2.99 DEATHSTAR BB/EL 2.99 REVS 4 ADD ON TRACKS BB 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 1.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRAK BB/EL 1.99 SOCCER BOSS BB/EL 1.99 FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GRAHAM GOOCH EL 1.99 SPY CAT BB/EL 2.99 GRID IRON 2 BB/EL 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HO QUIZ			2.99	REPTON 1 OR 2		2.99
DEATHSTAR BB/EL 2.99 REVS 4 ADD ON TRACKS BB 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 1.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRAK BB/EL 1.99 SOCCER BOSS BB/EL 1.99 FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 2.99 GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 2.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 2.99 THRUST BB/EL 2.99 HYPER SPORT	CREEPY CAVE	BB/EL	1.99			2.99
DEATHSTAR BB/EL 2.99 REVS 4 ADD ON TRACKS BB 2.99 DOMINOES BB/EL 2.99 SHANGHAI WARRIOR BB/EL 1.99 FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRAK BB/EL 1.99 SOCCER BOSS BB/EL 1.99 FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 2.99 GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 2.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 2.99 THRUST BB/EL 2.99 HYPER SP	DARTS	BB/EL	1.99	REPTON THRU TIME		2.99
FOOTBALL MANAGER BB/EL 2.99 SMASH AND GRAB BB/EL 1.99 FRAK BB/EL 1.99 SOCCER BOSS BB/EL 1.99 FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GRAHAM GOOCH EL 1.99 SPY CAT BB/EL 2.99 GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 2.99 GID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRYKERS RUN BB/EL 2.99 HO Q QUIZ BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE <	DEATHSTAR	BB/EL	2.99	REVS 4 ADD ON TRACKS	BB	2.99
FRAK BB/EL 1.99 SOCCER BOSS BB/EL 1.99 FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GRAHAM GOOCH EL 1.99 SPY CAT BB/EL 2.99 GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOB GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL <td>DOMINOES</td> <td>BB/EL</td> <td>2.99</td> <td>SHANGHAI WARRIOR</td> <td>BB/EL</td> <td>1.99</td>	DOMINOES	BB/EL	2.99	SHANGHAI WARRIOR	BB/EL	1.99
FRUIT MACHINE SIM BB/EL 2.99 SPELL BINDER BB/EL 2.99 GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GRAHAM GOOCH EL 1.99 SPY CAT BB/EL 2.99 GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOW GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 2.99 JOE BLADE BB	FOOTBALL MANAGER	BB/EL	2.99	SMASH AND GRAB	B8/EL	1.99
GALAFORCE BB/EL 2.99 SPITFIRE 40 BB/EL 2.99 GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GRAHAM GOOCH EL 1.99 SPY CAT BB/EL 2.99 GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOB GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 2.99 JOE BLADE BB 1.99 TURF FORM BB/EL 2.99	FRAK	BB/EL	1.99			1.99
GOLF BB/EL 1.99 SPOOKSVILLE BB/EL 2.99 GRAHAM GOOCH EL 1.99 SPY CAT BB/EL 2.99 GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOB GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99	FRUIT MACHINE SIM	BB/EL	2.99	SPELL BINDER	88/EL	2.99
GRAHAM GOOCH EL 1.99 SPY CAT BB/EL 2.99 GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOB GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99	GALAFORCE	BB/EL	2.99	SPITFIRE 40	BB/EL	2.99
GREEN BERET BB 2.99 STEVE DAVIS SNOOKER BB/EL 1.99 GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOB GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99			1.99	SPOOKSVILLE	BB/EL	2.99
GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOB GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99	GRAHAM GOOCH	EL	1.99			2.99
GRID IRON 2 BB/EL 2.99 STORM CYCLE BB/EL 1.99 GUN FIGHTER BB/EL 1.99 STRIP POKER BB 2.99 HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOB GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99	GREEN BERET	BB	2.99	STEVE DAVIS SNOOKER	BB/EL	1.99
HI Q QUIZ BB/EL 2.99 STRYKERS RUN BB/EL 2.99 HOB GOBLIN BB/EL 2.99 SUMMER OLYMPIAD BB/EL 2.99 HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99	GRID IRON 2	BB/EL	2.99			1.99
HOB GOBLIN			1.99	STRIP POKER	BB	2.99
HOWZAT TRIPLE PACK BB/EL 1.99 TETRIS BB/EL 2.99 HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99	HI Q QUIZ	BB/EL	2.99	STRYKERS RUN	BB/EL	2.99
HYPER SPORTS BB 2.99 THRUST BB/EL 2.99 JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99	HOB GOBLIN	BB/EL	2.99	SUMMER OLYMPIAD	BB/EL	2.99
JOE BLADE BB/EL 1.99 TRAPPER BB/EL 1.99 JOE BLADE 2 BB 1.99 TURF FORM BB/EL 2.99	HOWZAT TRIPLE PACK	BB/EL	1.99	TETRIS	BB/EL	2.99
JOE BLADE 2	HYPER SPORTS	BB	2.99	THRUST	BB/EL	2.99
The state of the s	JOE BLADE	BB/EL	1.99	TRAPPER	88/EL	1.99
	JOE BLADE 2	BB	1.99	TURF FORM	BB/EL	2.99
	KARATE COMBAT	BB/EL	2.99	YIE AR KUNG FU	BB/EL	2.99

UTILITIES

5 1/4 UNBRANDED DISCS35 EACH	5 1/4 50 PIECE DISC BOX	6.99
3.25 /10	5 1/4 100 PIECE DISC BOX	7.99
7.99 /25	3 1/2 40 PIECE DISC BOX	6.99
3 1/2 UNBRANDED DISCS69 EACH	3 1.2 80 PIECE DISC BOX	7.99
5.99 /10	MOUSE MAT 80mm	2.99
13.99 /25		

COMPILATIONS

PLAY IT AGAIN SAM 14 SUPERSIDE SOCCER, PREDATOR, STARPORT & BALLISTIX BB/EL CASS 6.99. BB 5.25 DISC 8.99. BB 3.5 **DISC 9.99**

PLAY IT AGAIN SAM 13 BARBARIAN 2, PERCY PENGUIN, HYPERBALL & PANDEMONIUM. BB/EL CASS 6.99. BB 5.25 DISC 8.99. BB 3.5 DISC 9.99

PLAY IT AGAIN SAM 12 LAST NINJA, BY FAIR MEANS OR FOUL, SKIRMISH & BLAGGER BB/EL CASS 6.99. BB 5.25 DISC 8.99. BB 3.5 DISC 9.99

PLAY IT AGAIN SAM 11 BARBARIAN, PIPELINE, BARON & MONSTERS. BB/EL CASS 6.99. BB 5.25 DISC 8.99. BB 3.5 DISC 9.99

SPECTRUM

BUDGET GAMES		Games-Winter Edition	3.99	Pub Trivia
2 Player Super League	2.99	Gary Linekers Superstar Soccer		Question of Sport
4 x 4 Off Road Racing	2.99	Gauntlet 1 or 2	2.99	R-Type
3-D Pinball		Ghostbusters		Rambo
1942		Graham Gooch		Rampage
1943		Grand National		Real Ghostbusters
Academy		Great Escape		Renegade 1 or 3
Ace 1	1.99	Green Beret	2.99	Roadblasters
Ace 1 and 2	2.99	Greg Loses Clock	2.99	Rock Star
Airwolf	2.99	Grid Iron 2	2.99	Rolling Thunder
American Football	2.99	Gryzor	NEW 2.99	Ruff and Ready
Antiriad	NEW 2.99	Guardian Angels	2.99	Rugby Boss
Arcade Fruit Machine	2.99	Head Over Heels	2.99	Rugby Manager
Atom Ant		Heavy on the Magick	1.99	Run the Gauntlet
Barbarian	Z.99	Hong Kong Phooey	NEW 2.99	Saboteur 1 or 2
Barbarian 2	NEW 3.99	Hypersports	2.00	Salamander
Batman the Caped Crusader	UEW 2 00	Impossible Mission 2	2.00	Scooby Doo
Battleships		Indiana Jones Temple of Doom	2 99	Skate Crazy
Blasteroids	2.99	International Football	2.99	Skate or Die (+3 Disc)
Blinky's Scary School	2.99	International Manager	2.99	Skooldaze
Bombiack	2.99	Bari Warriors	2.99	Snooker Management
Boulderdash 1 or 2 or 4	2.99	Jack the Nipper 1 or 2	2.99	Snooker Manager
The Boxer	2.99	Jaws	NEW 2.99	Soccer 7
Boxing Manager	2.99	Jet Set Willy		Soccer Boss
British Super League	2.99	Joe Blade 1 or 2	1.99	Soccer Director
Buggy Boy	2.99	Joe Blade 3		Soccer Q
California Games		Kentucky Racing		Soccer Star
Cauldron 1 or 2		Kick Boxing		Space Harrier
Championship Golf	Z.99	Knightmare	1.99	Spaghetti Western
Chuck Yeager Flight Trainer	6.00	Konami Tennis Leaderboard	2.00	Spindizzy
Chuck Yeager (+3 Disc)	1.00	League Challenge	2.99	Spy Hunter
Classic Punter	2 90	Little Puff	2 99	Spy v Spy 1 or 2
Classic Trainer		Live and Let Die	2.99	Starwars
Commando		Macadam Bumper (Pinball)	2.99	Street Fighter
County Cricket (D&H)		The Manager	2.99	Striker
Crazy Cars	2.99	Manic Miner	2.99	Strip Poker 2
Cricket Captain (Hi-Tech)	2.99	Matchday 1 or 2	2.99	Summer Games
Cybernoid	2.99	Mike Reids Pop Quiz		Supercycle
Daley Thompson's Decathlon	2.99	Mikie		Super Nudge 2000
Daley Thompson's Olympic Challenge	2.99	Mini Office		Super Stock Cars
Daley Thompson's Supertest	2.99	Monte Carlo Casino	2.99	Super Tank Sim
Dan Dare 2	3.00	Monty on the Run	NEW 2 00	Target Renegade
Dizzy Dice		Motorcycle 500	NEW 2.99	Tetris
The Double		Nigel Mansell Grand Prix	2 00	Theatre Europe
Dragons Lair		Ninja Master	1.99	Thundercats
Empire Strikes Back		North Star		Tiger Road
Enduro Racer		Ollie and Lisa 3		Top Gun
Escape from Singes Castle		On the Bench	2.99	Trap Door 1 or 2
FA Cup	1.99	Operation Gunship	2.99	Treasure Island Dizzy .
Fantasy World Dizzy	2.99	Operation Handi	2.99	U.S. Basketmaster
Fast Food		Operation Wolf		Vndicator
Fist 2		Out For The Count		WEC Le Mans
First Past the Post	2.99	Outrun		Wembley Greyhounds
Footballer		Overlander		Wheelie
Football Champions		Para Academy	2.00	Winter Games Wizball
Football Manager		Penalty Soccer		The Wombles
Footballer of the Year		Pinball Sim		Wonderboy
Formula One Grand Prix	1.99	Powerplay		World Class Leaderbox
Frank Bruno		Postman Pat		World Games
Frankenstein Jnr		Postman Pat 2	2.99	Yes Prime Minister
Fruit Machine Sim 2	2.99	Pro Baxing Sim	2.99	Yie Ar Kung Fu
Full Throttle		Pro Golf (Codemasters)	2.99	Yogi Bears Great Escap
G.B Air Rally	NEW 2.99	Pub Games	2.99	Zybex
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CBM 64

BUDGET GAMES	Frank Bruno 2.99
2 Player Super League Soccer2.99	Fruit Machine Sim 1 or 2 2 99
3-D Pinball	G.B Air RallyNEW 2.99
4 x 4 Road Race	Games Winter EditionNEW 3.99
1942299	Gary Linekers Hotshots
1943 2.99	Gauntlet 1 or 2
7202.99	Ghostbusters
Ace	Ghosts and Goblins2.99
Ace 1 and 22.99	Graham Gooch
Advanced Pinball 2.99	Green Beret
Airwolf	Grid Iron 2
Arcade Trivia Quiz	GryzorNEW 2.99
Atom AntNEW 2.99	Guardian AngelsNEW 2.99
Bangkok Knights2.99	Hardball2.99
Barbarian 2.99	Hong Kong PhooeyNEW 2.99
Barbarian 2 NEW 3.99	Howard the DuckNEW 2.99
Batman the Caped CrusaderNEW 2.99	Hypersports 2.99
Big Foot	LK+
Blasteroids 2.99	Ice Hockey
Blinky's Scary School	Impossible Mission 2 2.99
The Boxer NEW 2.99	Indiana Jones Temple of Doom
British Superleague 2.99	International Manager 2.99
Bombiack 1 or 2 2.99	International Soccer
Boulderdash 1 or 2 or 4	International Soccer
Boulderdash 1 or 2 or 42.99	Ikari Warriors
Boxing Manager	Jack the Nipper 1 or 22.99
Buggy Boy 2.99	Jaws
California GamesNEW 3.99	Kentucky RacingNEW 2.99
Cauldron 1 or 2	Kikstart 2
Championship GolfNEW PRICE 2.99	Knight Games 2.99
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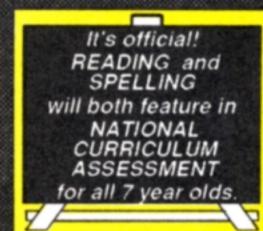
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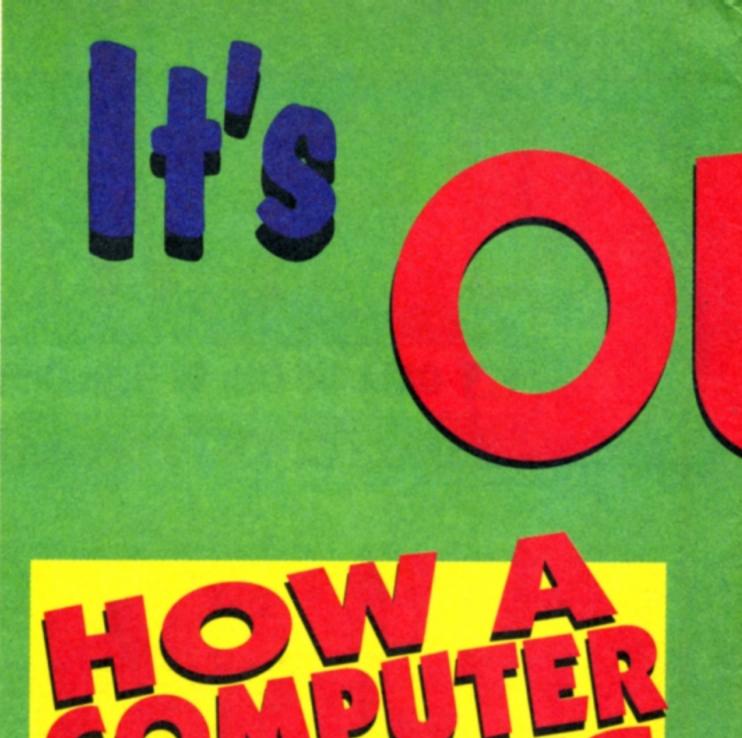
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Last month we looked into the CPU - the brain of your computer.

But what use is a brain if it cannot pass messages to the outside world? So your computer needs a way of getting information out.

To do this it uses output devices. And there are lots of them. The most common ones are TV screens and printers.

But there are lots of others.

Robots, Midi interfaces and speech units are all output devices. Like the rest of your computer, they are all worked by numbers.

It's those zeros and ones we've seen before that make them work.

Look at a letter on your screen. Or a letter printed on a dot matrix printer.

You can clearly see that each letter is made up from dots. On the screen it may be out of a square that measures eight dots across and eight down.

Imagine each row of dots in the letter being controlled by a memory location in your computer. There are many thousand of these in every computer.

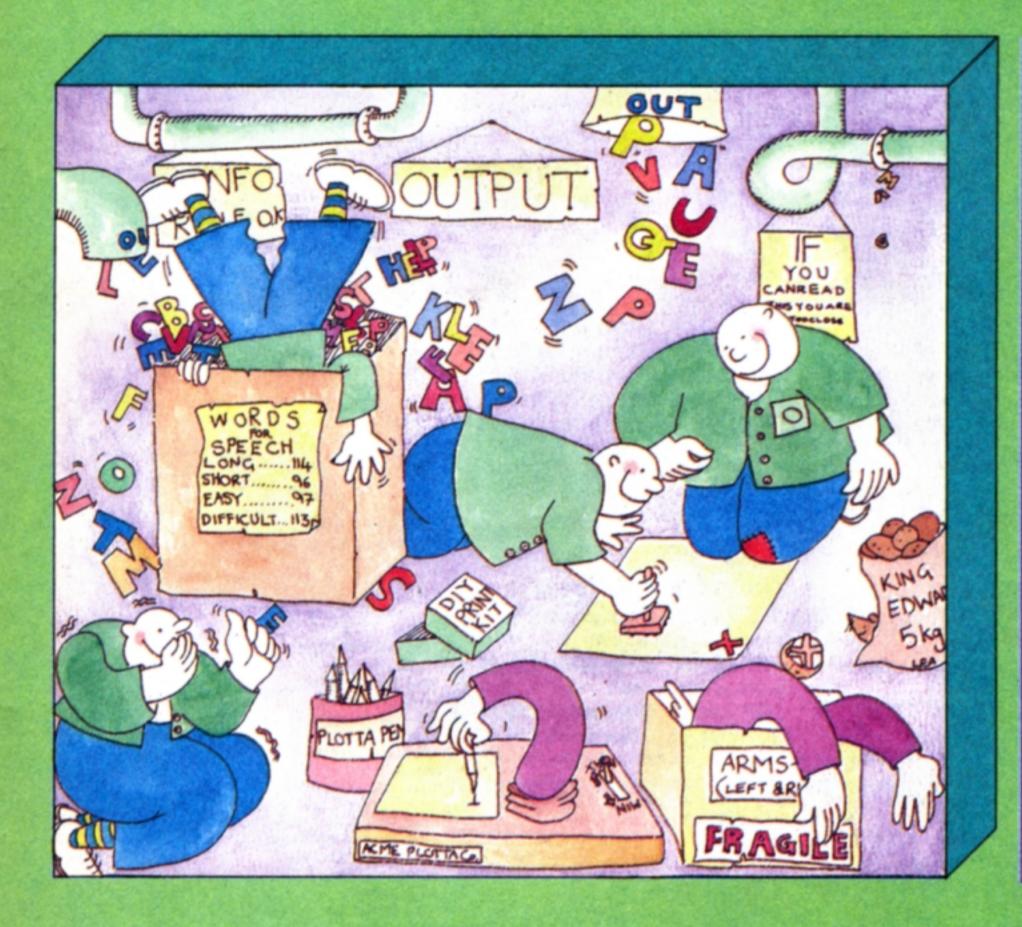
Suppose the top row of dots in a letter is joined to a location where the number 16 has been stored. That's 00010000 in binary.

When that's sent to the screen a dot lights up. It's near the middle of the top row of a letter so it could be the point of the letter A.

Most printers work the same way. Even this page of Let's Compute! is made up of

NEXT MONTH: We look

JAPUT Mine



BINARY BITS

We asked last month if you could think how to write 16 in binary. The answer is 10000.

That's 1 Sixteen + 0 Eights + 0 Fours + 0
Twos + 0 Units. Now you've got sixteens you
can count to 31. Try it.

And then all you have to do is bring in Thirtytwos. Next come the sixty-fours and so it carries on: 128, 256, 512, 1024...

We also said that it's easier to add in binary than in decimal. Why?

To add any numbers in decimal you need to know 100 facts. That's 0+0=0, 5+7=12, 7+5=12, 4+2=7 and so on.

They may look easy now, but when you started adding you had 100 different ones to learn.

But learning to count in binary would have been much easier. You'd only have had four things to learn:

> 0+0=0 0+1=1 1+0=1 1+1=10

And you do sums in a very similar way to decimal. The only difference is that you carry if the answer is bigger than one.

So, because a computer works in binary, it only has to be able do a few simple things to be able to work out any sum you give it.

dots. But there are so many that you can't make them out without a magnifying glass.

Some output devices don't work by letting you see things. For instance, a computer can control a musical instrument. The instrument is then the output device.

But, if a computer works with numbers, how can it control a musical instrument? Let's think about how loud the instrument sounds.

Like everything else, the volume is controlled by numbers.

Some computers have only eight possible volumes. If a sound was produced going from quietest to loudest you'd hear the

eight steps. But if the computer has lots of steps - say 1024 - you won't notice them.

It's like when you have a lot of dots making up a letter on paper. It appears smooth.

Other features of the instrument can be controlled in the same way. By numbers.

There are also output devices that store information. They keep it in a form ready to be fed back in to your computer. Examples are disc drives and tape recorders.

These are called storage devices. They can input and output information to and from your computer.

• We'll look at them next month.

at how a computer STORES all those facts and figures





Mercury Games

TITLE

1st Word Plus (V2)

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Apocalypse

Armadeus

Artisan 2

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Avon (Educ.)

Battletanks

Bug Hunter

Chocks Away

Conqueror

Corruption

Drop Ship

COPS

E-Type

Fireball 2

Flight Path

Holed Out

Hostages

Inertia

Fish

ARC-COMM

Arcade Soccer

8bit Sound Smp. + Midi

8bit Sound Smp Mono

Amazing Ollie (4+ years)

Arcade 3 Compilation

Bumper Disc 1 (Educ)

Bumper Disc 2 (Educ)

Dust Cover A.3000 K'bd

Coffee (9-15 years)

Euclid (RISC-OS)

Family Favourites

Giant Killer (Educ.)

Hearwith The Clues

Hold Out Designer

Impression Junior

Knowledge Organiser

Let's Spell at the Shops

Mad Professor Mariarti

Maths Pack 1 (5-7yrs)

Ollie Octopus Skechpad

Last Days of Doom/Hezarin

Let's Spell at Home (4-9 yrs)

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Maddingly Hall

Manchester Utd

Missile Control

Man At Arms

Micro Drive

Nevryon

Orion

PON

Ovation

Redshift

Repton 3

Talisman

Tempest

The Pawn

Rotor

Pipemania

Rhapsody in Blue

Spellbook (4-9yrs)

Sporting Triangles

Superior Golf

The Olympics

The Real McCoy

The Wimp Game

Trivial Pursuit

U.I.M.

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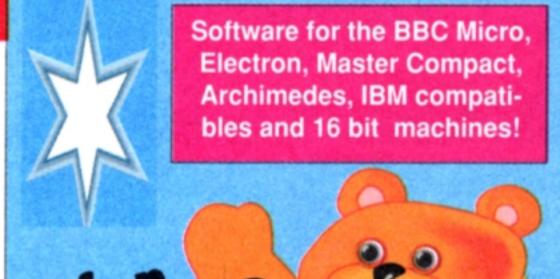
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PRIZE WINNERS

WIN A COMMODORE AMIGA

Wow! We never thought so many words could be made from the letters of Commodore Amiga. There were hundreds of entries – many with over 750 words.

With 1,121 words the winner is 12 year old Andrew Hatch from Waterloo in Lancashire.

Congratulations to him and everyone else who tried so hard.

SPOT THE DIFFERENCE

We had hundreds of entries to Mike Goldberg's challenge in October. But only five people spotted all 19 differences between the pictures.

The first correct one pulled from the pile was from Caroline MacDonald (8), Fort Willian. She will receive the superb handpainted jigsaw made by Mike.

The other four correct entries were from Paul Clement (12), Donemana; Michael Heading (13), Belfast; Mark Argent (14), St. Albens and Nicola Rae (10), BFPO. They will each receive a small hand-made gift from Mike's collection.

This month's contests are on Page 9, 28 and 37

BONANZA CONTEST WINNERS

The Bonanza Competition in the October issue of Let's Compute had us fighting our way through the entries. However, here are the first correct 185 entries pulled from the sack. If your name is below you'll shortly be receiving a goody from US Gold or Ocean:

Andrew Nelson (6), Tetbury Kevin O'Neill (15), Bantry Mark Davis (11), Halstead David J Holt, Epsom Jonathan Craig (17), Limavady Robert Agnew (11), Walthamstow David Dolliver (10), Stanley Kevin Anderson (11), Kennoway Steven Mosley (12), Harrogate Ryan Baldwin (10), Luton Alex Waddell (10), Tilehurst Emma Conlon (6), Rothwell Haigh John Westcott (12), Romsey Matthew Townsend (11), Thornhill Rebecca Hughes (8), Wootton Bassettlan Bailie (11), Newbridge Laurence Newman (11), Tibbermore Sarah Pye (9), St Helens Paul Dodds (12), Great Lumley Gregory Broome (12), Milnsbridge Matthew James (15), Leavy Georgina Giraldi (14), Charlton Kings Alexander Dillon (9), Congleton Simon Green (14), Deddington James Harrion (12); Hemel Hempstead Andy Jenkins (12), Longlevens Matthew Lacey (9), Locking Steven Stewart (10), Lossiemouth Jayesh Panchmatia (13).

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Matthew Lowden (11), Macclesfield
Francis Chin (11), Marshalswick
Jamie Damerell (13), Locksheath
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Liane Llewellyn (9), Odsal Neil Davis (12), Fareham James Brand (15), Harrogate S. Methuen (12), Kendon James Jagger (12), Welton Alistair Brown (10), Randlay Bill Yip (12), Ashton-u-Lyne Casey Jonkmans (12), St Martins Gareth Spencer (12), Ashton-in-

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Kate Shotton (8), Westerhope Shaun McManas (4), Rochester Jami O'Donnell (10), West Winch Michael Wynne (9), Reading Kevin Kilroy (11), Liverpool Michael Bowerman (11), Reading Lucy Ann (13), Leigh Park Jonathan Rothery (12), Whitehaven Colin Bromley(10), Oakley Malcolm, Shepherd(11), North

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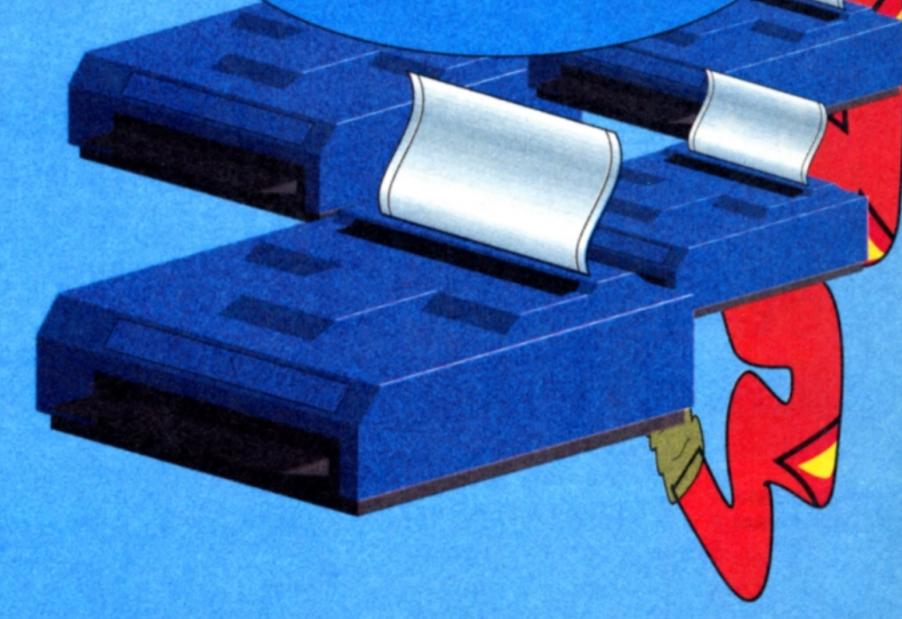
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